

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from Non-Residents of North America until the expiration of ninety (90) days from September 1, 1926.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	30 years	10 years*	5 years
Associate Member	Qualified to direct work	25 years	6 years*	1 year
Junior	Qualified for sub-professional work	18 years†	2 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

* Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

† Membership ceases at age of 32 unless transferred to higher grade.

LIST OF APPLICANTS.

Names and Addresses of Applicants for Admission and for Transfer on this Preliminary List,
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The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in *italics* represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of two years for graduation and of one-third of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Sub-Professional Work.

FOR ADMISSION

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(7) **AEGERTER, WILLIAM CARL**, 600 Kohler Court, Lansing, Mich. (Age 25. Born Randolph, Nebr.) Registered Civ. Engr., State of Mich. 1922 B. S. in C. E., Univ. of S. Dak. *TT 2: SP 2.* June to Sept. 1920 Rodman, South Dakota Highway Comm. June to Sept. 1921 Rodman and Draftsman, Albert Lea (Minn.) Farms Co. June to Aug. 1922 Levelman in charge of party on drainage survey, James and Big Sioux Drainage Comm. *TT 0.2: P 0.2.* Aug. 1922 to March 1923 Deck Officer, U. S. Coast and Geodetic Survey, acting as Instrumentman. *TT 0.7: P 0.7.* April 1923 to April 1924 Jun. Engr., Illinois State Highway Dept., 3 months as Technical Observer at Bates Road, 3 months on field inspection of materials, and 6 months on bridge design. *TT 1: P 1: D 0.5.* Sept. 1924 to Aug. 1925 Asst. Prof. of Civ. Eng., Clemson Coll., S. C. *TT 1: P 1: RC 1.* May to Aug. 1924 Estimator and Designer of reinforced concrete building construction, and 1925 to date Structural Engr. on estimates and designs of fireproof buildings, Capitol Steel Corporation, Lansing Mich. *TT 1.2: P 1.2: RC 1: D 1.* *TT 6.2: SP 2: P 4.2: RC 2: D 1.5.* Refers to W. Bintz, J. M. Brown, G. F. Burch, E. L. Clarke, D. F. Stockbridge, J. H. Wasson.

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(11) **ALVERSON, DAVID SEXTON**, 803 South Grandview St., Los Angeles, Cal. (Age 25. Born in Warren County, Miss.) Licensed Surveyor, State of Cal. Feb. to Aug. 1920 Chainman with Warren County Road Engr., Asst. on highway location and construction, field and office work. *TT 0.6: SP 0.6.* Sept. 1920 to March 1921 Rodman, Alabama & Vicksburg Ry. Co., Asst. on maintenance and construction. *TT 0.5: SP 0.5.* March to July 1921 Instrumentman, Warren County, Miss., highway location and construction. *TT 0.5: SP 0.2: P 0.3: RC 0.3.* Aug. to Sept. 1921 Levelman, Texas Oil Co., Houston, Tex. *TT 0.2: SP 0.2.* Jan. to July 1922 Rodman and Inspector, Union Pacific Ry. Co., on construction, terminals and shops. *TT 0.6: SP 0.6.* Aug. 1922 to Sept. 1923 Chainman and Instrumentman, Los Angeles Harbor Dept., on track layout and construction, pier and shed construction and dredging. *TT 1.1: SP 1.1.* Oct. 1923 to Jan. 1924 Instrumentman and directing field party, Eng. Dept., Los Angeles, surveys and supervision of street, sewer and culvert construction. *TT 0.4: P 0.4: RC 0.4.* Feb. 1924 to date Instrumentman, Party Chf., Los Angeles County Road Constr. Dept., on surveys, and construction of streets, drains, culverts, roads, walk, curb, etc. *TT 2.2: SP 0.7: P 1.5: RC 1.5.* *TT 6.1: SP 3.9: P 2.2: RC 2.2.* Refers to E. A. Burt, O. F. Cooley, E. F. Cykler, G. W. Jones, F. H. Joyner, J. H. Payne.

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(13) **ASHLEY, WILLIAM JAMES**, 435 West Portal Ave., San Francisco, Cal. (Age 36. Born San Francisco, Cal.) U. S. Navy War Coll. 1914 B. S., Univ. of Cal. *TT 2: SP 2.* July 1914 to Aug. 1915 structural drafting for C. H. Snyder, San Francisco, Cal. *TT 1: SP 1.* Aug. 1915 to March 1916 Asst. Supt. on construction of hospital, Univ. of California, San Francisco. *TT 0.8: SP 0.8.* March 1916 to April 1917 Asst. Res. Engr., hydro-electric construction, Pacific Gas & Elec. Co., Auburn, Cal. *TT 1: SP 1.* April 1917 to July 1919 with U. S. Navy, Lieut., Fleet Reserve, Navigation Officer on destroyer. *TT 2.3: P 2.3:*

RC 2.3. July 1919 to July 1920 structural drafting and design of steel and reinforced concrete office buildings for H. T. Brunnler, San Francisco. *TT 1: SP 0.6: P 0.4: D 0.4.* July 1920 to July 1921 Supt. of Bldg. Constr., National Carbon Co., San Francisco, 4-story and basement reinforced concrete factory. *TT 1: P 1: RC 1.* July 1921 to March 1922 with I. M. Sommer & Co., Gen. Contrs., San Francisco, estimating and superintending construction. *TT 0.6: SP 0.6.* March 1922 to 1923 Eng. Draftsman and on design of office buildings, R. F. Felchlin Co., Fresno, Cal. *TT 0.9: SP 0.5: P 0.4: D 0.4.* Feb. to Sept. 1923 Eng. Draftsman, Pacific Portland Cement Co., San Francisco, on plaster mill, steel and concrete. *TT 0.7: P 0.7: D 0.7.* Sept. 1923 to Oct. 1925 Asst. Engr., Pacific Gas & Elec. Co. on designs, structural steel and reinforced concrete building. *TT 2: P 2: D 2.* Oct. 1925 to May 1926 Asst. Engr., The Austin Co. of California, on designs and estimating, industrial buildings, steel and concrete. *TT 0.7: P 0.7: D 0.7.* June 1926 to date structural design, steel and concrete, Feather River Power Co., San Francisco. *TT 0.1: P 0.1: D 0.1.* *TT 14.1: SP 6.5: P 7.6: RC 3.3: D 4.3.* Refers to C. de Witt, W. Dreyer, G. E. Goodall, R. Monroe, O. Speir, Jr., I. C. Steele, H. C. Vensano.

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(15) AYERS, JAMES ROBERT, Jr., City Eng. Dept., Houston, Tex. (Age 21. Born Yoakum, Tex.) 1926 B. S. in C. E., Rice Inst. June to Sept. of years 1924 and 1925 and June 1926 to date with City of Houston, Tex., as Asst. to Planning Engr. (1924), Jun. Draftsman (1925) and at present Senior Draftsman in Bridge Dept. tracing drawings, plotting notes for bridge location, etc. *TT 2: SP 2.* Refers to J. C. McVea, L. B. Ryon, Jr.

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(4) BABCOCK, CHARLES DAVID, 6206 North Park Ave., Philadelphia, Pa. (Age 41. Born Leon, N. Y.) 1909 C. E., Rens. Pol. Inst. *TT 2: SP 2.* June 1909 to April 1918 Instructor, Dept. of Geodesy and R. R. Eng., Rensselaer Polytechnic Inst. *TT 8.8: P 8.8: RC 3.* April 1918 to March 1919 Asst. Engr., The Foundation Co., New York City, in charge of field work in layout of buildings, railroads, highways, sewers, property lines, etc., and in charge of mapping of Richmond Bag Loading Plant, Seven Pines, Va. *TT 0.9: P 0.9: RC 0.9.* April 1919 to March 1924 with Corrugated Bar Co., Inc., 3½ years as Engr. in Buffalo office and 1 7/10 years Dist. Engr. in charge of Eng. Dept., Philadelphia Office, designing, estimating and detailing reinforced concrete structures. *TT 4.9: P 4.9: RC 3.5: D 3.5.* March 1924 to April 1925 Dist. Engr., Philadelphia Office, Kalman Steel Co., Inc., Chicago, Ill., in charge of Eng. Dept., designing, estimating and detailing reinforced concrete structures. *TT 1.1: P 1.1: RC 1.1: D 1.1.* April 1925 to date Engr., Day & Zimmermann Eng. & Constr. Co., Philadelphia, designing and estimating, writing reports of various types of buildings and other structures. *TT 1.2: P 1.2: RC 1.2: D 1.2.* *TT 18.9: SP 2: P 16.9: RC 9.7: D 5.8.* Refers to E. R. Cary, M. W. Easby, G. Huntley, P. C. Ricketts, W. W. Rousseau, A. P. Skaer, W. S. Thomson.

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(13) BAXTER, FRANK EDWIN, Jr., 245 Market St., San Francisco, Cal. (Age 29. Born Springville, Utah.) 1918 B. S., Coll. of Civ. Eng., Univ. of Cal. *TT 2: SP 2.* April 1918 to April 1919 with 5th Regt., Engrs., U. S. Army, finally as 2d Lieut. *TT 1: SP 1.* April 1920 to April 1921 Designing Draftsman for M. C. Couchot, Cons. Engr., San Francisco, Cal., on structural design of buildings, principally reinforced concrete. *TT 1: P 1.* June 1919 to April 1920 and April 1921 to date with Pacific Gas & Elec. Co., until Oct. 1919 as Instrumentman, then Chf. of field party on final location of waterways and on construction of canal and tunnel for combined irrigation and hydro-electric development; and since April 1921 Asst. Engr., Bureau of Specifications and Estimates, Dept. of Eng., on estimates, specifications, special engineering reports, etc., immediately in charge of Bureau's civil engineering work; past 2 years has had active part in general direction of construction of Company's general office and two divisional office buildings. *TT 6.2: SP 0.4: P 5.8: RC 3.8.* *TT 10.2: SP 3.4: P 6.8: RC 3.8.* Refers to M. C. Couchot, C. Derleth, Jr., H. B. Hammill, A. H. Markwart, R. A. Monroe, I. C. Steele.

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(3) BEEHLER, VERNON DALZELL, 13 Upton Park, Rochester, N. Y. (Age 22. Born Kingston, N. Y.) 1926 C. E., Rens. Pol. Inst. July 1926 to date Draftsman with Wm. S. Lozier, Inc., C. E., Rochester, N. Y. *TT 2: SP 2.* Refers to E. R. Cary, L. W. Clark, T. R. Lawson, W. W. Rousseau.

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(8) BENHAM, SANFORD WEAVER, Room 322, Y. M. C. A., 1621 West Division St., Chicago, Ill. (Age 27. Born Wheatland, Ind.) 1926 B. S. C. E., Purdue Univ. *TT 2: SP 2.* Refers to D. A. Abrams, F. A. Barnes, W. K. Hatt, G. E. Warren, R. B. Wiley.

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(9) **BERTWELL, WILLIAM**, 216 Marshall St., Gary, Ind. (Age 22. Born Hastings, Nebr.) A. B., and 1926 B. Sc. in C. E., Univ. of Nebr. June 1926 to date Draftsman, American Bridge Co., Gary (Ind.) Plant. *TT 2: SP 2.* Refers to F. W. Dencer, C. M. Duff, M. I. Evinger, H. J. Kesner, C. E. Mickey.

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(15) **BETANZO, FRANCISCO JOSE**, 307 High Life Bldg., Mexico, D. F., Mexico. (Age 45. Born Tehuacan, Mexico.) 1901 Lieut., Artillery, Colegio Militar de Chapultepec. 1901 to 1903 Lieut., Artillery, Mexican Army. *TT 2: SP 2.* 1903 to 1904 post-graduate student in Artillery Eng., Ecole Militaire, San Cyr, France. *TT 1: SP 1.* 1904 to 1907 member, National Geographical Comm., being Auxillary Engr., cooperating in survey and study of Churiscar River, Chihuahua, Mexico. *TT 3: SP 3.* 1907 became First Capt., Artillery, Mexican Army. 1907 to 1909 Chf. Engr. in charge of geographical survey and map of Morelos, Mexico, including survey of all roads and currents. 1909 became Calculating Engr. and until 1910 acted as Chf. Engr. in charge of triangulation and topographical survey of Coahuila, and irrigation survey of El Nacimiento Valley, Coahuila, Mexico: 1910 to 1911 Chf. Engr. in charge of irrigation studies of Nazas River, Durango, Mexico. *TT 4: P 4: RC 4.* 1911 to 1914 Technical Inspector of Artillery for Mexican Govt., in France and in Germany. *TT 3: P 3: RC 3: D 1.* 1915 to 1916 designed and constructed irrigation works, consisting of main canals, laterals and pumping plants, on Las Palmas and Los Tomatos Ranches, Lower Rio Grande Valley, Texas. *TT 1: P 1: RC 1: D 0.5.* 1916 to 1925 designed, constructed and operated irrigation system comprising 20 miles of main canals and laterals, two pumping stations, etc. for Santo Domingo Plantation (3,000 acres). *TT 9: P 9: RC 9: D 3.* 1925 to date in private practice as Cons. Engr., at Mexico City. *TT 1: P 1: RC 1. TT 26: SP 8: P 18: RC 18: D 4.5.* Refers to M. C. Crawford, O. N. Floyd, E. S. Heyser, H. F. McFarland, W. K. Mellyar, R. E. Miller.

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(1) **BLANK, ALBERT STEIN**, 66 Malone Ave., Belleville, N. J. (Age 33. Born Allentown, Pa.) 1915 C. E., Lehigh Univ. *TT 2: SP 2.* June to Oct. 1915 Asst. to City Engr., Allentown, Pa., on road construction and street grading. *TT 0.3: P 0.3.* Oct. 1915 to Jan. 1917 Transltman and Chf. of Party, Lehigh Valley R. R., Bethlehem, Pa., being Field Engr. on dock construction, waterway excavation, track layouts, and surveys. *TT 1.2: P 1.2.* Jan. to June 1917 Designer, Pennsylvania R. R. Co., Pittsburgh, Pa., on reinforced concrete structure for grade-crossing eliminations. *TT 0.5: P 0.5: D 0.5.* June to Dec. 1917 Designer, Wm. B. Scaiffe & Sons Co., Pittsburgh, on water-purification plants. *TT 0.5: P 0.5: D 0.5.* Dec. 1917 to March 1919 2d Lieut., Ballistic Eng. Sec., Ordnance Dept., U. S. Army, testing high explosives at Hercules Powder Co. and government explosive plant "C" on proving grounds. *TT 1.3: P 1.3.* March 1919 to July 1920 Commission Merchant, Pittsburgh, Pa. July 1920 to Jan. 1923 Instructor, in charge, Mech. Drawing and Machine Design, Allegheny Vocational School of Wounded Ex-Service Men, N. S. Pittsburgh, in charge of organization of material and class instruction. *TT 2.5: P 2.5: RC 2.5.* Jan. 1923 to Jan. 1924 City Engr., Rahway, N. J., in charge of streets, sewers, garbage removal, Water Dept., etc. *TT 1: P 1: RC 1.* Jan. 1924 to date Town Engr. and Supt. of Constr., Belleville, N. J., in charge of streets, sewers, garbage removal, water, Bldg. and Purchasing Depts. *TT 2.4: P 2.4: RC 2.4. TT 11.7: SP 2: P 9.7: RC 5.9: D 1.* Refers to P. S. Boughton, R. J. Fogg, H. W. Hellmann, E. S. Rankin, W. A. Stickel, G. R. B. Symonds, J. R. Van Duyne.

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(13) **BOLDT, RICHARD OTTO**, 665 Fillmore St., San Francisco, Cal. (Age 39. Born Briesen, Germany.) 1908 graduated, Staetische Maschinenbau Schule zu Berlin, Germany. Oct. 1908-Sept. 1909 tests and computations, Govt. testing office, Gross Lichterfelde-Berlin. *TT 1: P 1.* Jan. 1910 to April 1911 Draftsman, detail and machine design, R. Hoe & Co., New York City. *TT 1: P 1: D 0.5.* April 1911 to April 1912 Draftsman and Designer Babcock & Wilcox Co., Bayonne, N. J. *TT 1: P 1: D 0.5.* May 1912 to June 1913 Draftsman and Designer, the Pullman (Ill.) Co. *TT 1: P 1: D 0.5.* June to Sept. 1913 Draftsman, Union Iron Works, San Francisco. *TT 0.2: P 0.2.* Oct. 1913 to Jan. 1917 Designer and Foreman, The Pullman Co., Richmond, Cal. *TT 3.3: P 3.3: RC 3.3: D 0.5.* Jan. 1917 to Jan. 1918 Machine Shop Foreman, Selby (Cal.) Smelting & Lead Co. *TT 1: P 1: RC 1.* June 1919 to Feb. 1921 Draftsman (Power Plant and Structural Designer), Pacific Gas & Elec. Co., San Francisco. *TT 1.5: P 1.5: D 0.5.* March 1922 to Feb. 1925 Machine Conveyor and Structural Designer with L. S. Rosener, Cons. Engr., San Francisco. *TT 3: P 3: D 2.* May to Dec. 1925 on steel design of bank building, reinforced school and factory with T. Ronneberg, Cons. Engr., San Francisco. *TT 0.5: P 0.5: D 0.5.* Feb. 1926 to date on

surveys, design of structural steel shops and supervising field construction, Pacific Rolling Mill Co., San Francisco. *TT 0.5: P 0.5: RC 0.5. TT 14: P 14: RC 4.8: D 5.* Refers to S. E. Carpenter, R. G. Doerfling, W. S. Hassenmiller, R. McHenry, H. M. Woolley, Jr.

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(1) **BOND, JOHN HENRY, Jr.**, 100 Jewett Ave., Jersey City, N. J. (Age 22. Born St. John, N. B., Canada.) 1925 B. S., Univ. of New Brunswick. 1926 B. S., Mass. Inst. Tech. May to Sept. of years 1922, 1923 and 1925 Instrumentman, Rodman, Chainman and Draftsman, Dept. of Public Works, Canada. May to Sept. 1924 Instrumentman, New Brunswick Elec. Power Comm. *TT 2: SP 2.* Refers to H. L. Bowman, C. M. Spofford.

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(15) **BOSSY, REGINALD ARTHUR**, 1006 West Russell, San Antonio, Tex. (Age 23. Born San Antonio, Tex.) 1926 B. S., Agri. and Mech. Coll. of Tex. *TT 2: SP 2.* Refers to L. W. Balcom, C. T. Bartlett, J. T. L. McNew, T. A. Munson, J. J. Richey, C. E. Sandstedt.

1003

(8) **BRAY, EUGENE CARTER**, 111 Galena Ave., Dixon, Ill. Graduating student awarded Central Illinois Section prize of Society Junior membership. (Age 29. Born Elizabeth, Ill.) 1926 B. S., Coll. of Eng., Univ. of Ill. *TT 2: SP 2.* April 1922 to April 1923 Rodman, April to Sept. 1923 Inspector, and June to Sept. of years 1924 and 1925 Jun. Engr., Div. of Highways, State of Illinois, on surveys, pavement, bridge and culvert construction. *TT 1.4: SP 1.4. TT 3.4: SP 3.4.* Refers to H. E. Babbitt, H. Cross, T. D. Mylrea, G. W. Pickels, C. C. Wiley, C. C. Williams.

1004

(2) **BROOKS, SAMUEL WILLIAM**, 194 Linden St., Everett, Mass. (Age 21. Born Freeport, Nova Scotia.) 1926 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Refers to H. L. Bowman, C. M. Spofford.

1005

(5) **BROWN, CAREY HERBERT**, Navy Bldg., Washington, D. C. (Age 40. Born in Muskingum County, Ohio.) 1910 U. S. Mil. Acad. 1912 Engr. School, U. S. Army. *TT 2: SP 2.* June 1910 to date Commissioned Officer, Corps of Engrs., U. S. Army, as follows: June 1910 to June 1915 and June 1917 to March 1919 in general service; June 1915 to June 1917 mapping, etc., in Canal Zone, Panama; March 1919 to Sept. 1922 Asst. Engr. Commr., District of Columbia; Sept. 1922 to July 1925 Director of Mil. Eng., Engr. School; since July 1925 Asst. Director, Public Bldgs. and Public Parks, Engr. National Capitol Park and Planning Comm., Washington, D. C. *TT 16.1: SP 6.7: P 9.4: RC 9.4. TT 18.1: SP 8.7: P 9.4: RC 9.4.* Refers to H. Bartholomew, U. S. Grant, 3d, E. Jadwin, C. W. Kutz, J. L. Nagle, G. A. Ricker, C. O. Sherrill, C. H. Tompkins.

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(10) **BRUNNER, LEROY EWALT**, 111 South Second St., Palatka, Fla. (Age 43. Born Central City, Iowa.) 1921 Registered Engr., State of Fla. 1907 B. A., Yale Univ. *TT 2: SP 2.* Oct. 1908 to July 1909 Chairman, first with U. S. Reclamation Service, then with Twin Falls (Idaho) Land & Water Co. *TT 0.7.* July 1909 to June 1911 Instrumentman, Sacramento Valley Irrigation Co., Willows, Cal., in charge of field party. *TT 1.9.* Feb. 1912 to Aug. 1914 Instrumentman and Chf. of Party on land surveys and subdivision work in and around San Diego, Cal. *TT 2.5.* Aug. 1914 to Oct. 1915 and Jan. to Dec. 1916 with City of San Diego, until Oct. 1915 as Draftsman on plans for water supply from mountains, etc., Jan. to April 1916 Inspector of street improvement work and May to Dec. 1916 Field Engr. on water development, locating and constructing pipe lines. *TT 1.7: RC 0.6.* Dec. 1916 to Feb. 1917 Draftsman and Timer, U. S. Coast and Geodetic Survey, on hydrographic survey of San Diego Harbor. *TT 0.2.* Feb. to May 1917 Inspector of street improvement, City of San Diego. *TT 0.2.* May 1917 to May 1919 Irrigation Engr., Calexico, Cal., on work in Imperial Valley, Cal., and Northern Mexico. *TT 2: RC 2: D 2.* May 1919 to Jan. 1920 traveling. Jan. 1920 to date in private practice of civil engineering at East Palatka and Palatka, Fla., engaged as follows: 1920 Asst. Engr. in charge of construction of Bostwick (Fla.) Drainage Dist. (Feb. to Nov.), and of Farmers Co-operative Drainage System (Jan. to May), East Palatka; since March 1921 Chf. Engr., successively for Special Road and Bridge Dists. 3, 4 and 5, Putnam County, Fla., East Palatka (Fla.) Drainage Dist. (since Oct. 1921) South Hastings Drainage Dist., Putnam and Flagler Counties, Fla. (since July 1923) and North Ormond Drainage Dist. (since Feb. 1926), Flagler and Volusia Counties, Fla., and on preliminary plans for proposed Alachua Drainage Dist., Alachua and Marion Counties, Fla.; since Aug. 1921 also County Surveyor for Putnam County. *TT 6.5: RC 6.5: D 6.5. TT 17.7: P 9.1: RC 8.5.* Refers to J. C. Allison, J. M. Belknap, G. Cromwell, E. B. Darlington, C. G. Elliott, P. M. Entenman, J. H. Randolph, Jr.

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(15) **BUCHANAN, SPENCER JENNINGS**, 810 Erie Ave., San Antonio, Tex. (Age 23. Born Yoakum, Tex.) 1926 B. S., Agri. and Mech. Coll. of Tex. TT 2: SP 2. July 1924 to Feb. 1925 Rodman and Instrumentman, San Antonio & Aransas Pass Ry. Co. TT 0.5: SP 0.5. June to Sept. 1925 Rodman, Morgan's Louisiana & Texas Ry. & Steamship Co. June 1926 to date Instrumentman, Galveston, Harrisburg & San Antonio Ry. Co. TT 0.1: SP 0.1. TT 2.6: SP 2.6. Refers to J. T. L. McNew, J. J. Richey.

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(13) **BUELL, RAYMON COX**, 825 Sutter St., San Francisco, Cal. (Age 30. Born St. Peter, Minn.) 1922 B. S., Mass. Inst. Tech. TT 2: SP 2. Sept. 1915 to March 1916 Rodman, Duluth, Huron & Southern R. R. TT 0.5: SP 0.5. May 1916 to Aug. 1918 Rodman, Computer and Draftsman, and March to Aug. 1919 Draftsman, Northern Pacific R. R. TT 2.7: SP 2.7. 1918 to 1919 with U. S. Army. Aug. to Sept. 1919 Concrete Highway Inspector, Wisconsin Highway Comm. Sept. to Dec. 1919 Asst. County Engr., Black Hawk County, Iowa, being Asst. in charge of dirt-road construction. TT 0.3: P 0.3: RC 0.3. May 1920 to Sept. 1922 (while student) Draftsman on structural work with Stone & Webster, Boston. Sept. 1922 to June 1923 student, Harvard Graduate School of Eng., and (Jan. to June 1923, part of time) Structural Designer for Coolidge & Shattuck, Archts., Boston, on reinforced concrete buildings. TT 0.7: P 0.7: D 0.5. Sept. 1923 to July 1924 Field Bridge Engr., Indiana State Highway Comm., in charge, as Asst., of construction of reinforced concrete and steel highway bridges. TT 0.8: P 0.8: RC 0.8. July to Nov. 1924 Constr. Supt., Ellis & Scamhorn Constr. Co., Rockport, Ind., on double-arch bridge. TT 0.3: P 0.3: RC 0.3. Jan. to Sept. 1925 Constr. Supt. on concrete culverts for 7 miles, Meyers Constr. Co., Hattiesburg, Miss., and on 5-span concrete girder bridge, D. M. Sparkman Co., Dyersburg, Tenn. TT 0.7: P 0.7: RC 0.7. Sept. 1925 to Feb. 1926 Structural Designer, Bridge Dept., Nebraska Highway Comm., in charge of design of steel and concrete highway bridges. TT 0.4: P 0.4: D 0.4. Feb. to May 1926 Structural Designer with H. J. Brunnler, Cons. Engr., San Francisco, Cal., reinforced concrete and steel design. TT 0.2: P 0.2: D 0.2. May 1926 to date Structural Engr., Portland Cement Association, San Francisco, promoting use of concrete in buildings. TT 0.2: P 0.2: RC 0.2. TT 9: SP 5.2: P 3.8: RC 3.1: D 1.2. Refers to H. J. Brunnler, A. P. Denton, L. J. Johnson, R. F. Lyman, C. M. Spofford, C. H. Sutherland.

1009

(6) **CAMILLI, DAVID**, 519 Lorimer Ave., Pittsburgh, Pa. (Age 27. Born Pittsburgh, Pa.) 1924 C. E., Univ. of Pisa, Italy. TT 2: SP 2. Aug. to Nov. 1924 Asst. Engr. on construction of tunnel near San Remo, Italy. TT 0.3: P 0.3: RC 0.3. Dec. 1924 to March 1925 Asst. in charge of construction of a villa and a theatre in Ghivizzano-Lucca, Italy. TT 0.2: P 0.2: RC 0.2. July 1925 to date Designing Draftsman, Bureau of Bridges, Allegheny County, Pa., calculating and checking stresses. TT 1.1: P 1.1: D 1.1. TT 3.6: SP 2: P 1.6: RC 0.5: D 1.1. Refers to J. C. Jordan, R. S. Quick, G. S. Richardson, G. B. Roberts, S. A. Shubin.

1010

(4) **CANDRICK, WORTHINGTON**, 307 First St., Olyphant, Pa. (Age 26. Born Olyphant, Pa.) 1923 B. S. in C. E., Bucknell Univ. TT 2: SP 2. June to Sept. 1923 Transltman on highway work for Owen & Plummer, Johnstown, Pa. TT 0.3: P 0.3. Oct. 1923 to Jan. 1924 Chf. of Party, Phoenix Utility Co., Hawley, Pa., on hydro-electric investigation, location and topography. TT 0.3: P 0.3. Jan. 1924 to Jan. 1925 Asst. Engr., Village of Scarsdale, N. Y., on location and construction of roads, sidewalks and drains and on design and construction of sanitary and storm sewers. TT 1: P 1. Nov. 1925 to March 1926 Chf. of Party, Lee County Eng. Co., Ft. Meyers, Fla., on subdivision surveys. TT 0.3: P 0.3. Jan. to Nov. 1925 and March to July 1926 Asst. Engr., Driner & Townsend Development Co., St. Petersburg, Fla., on design and staking of subdivisions, surveying and construction of drainage canals, highways and water supply. TT 1.1: P 1.1: RC 1.1. TT 5: SP 2: P 3: RC 1.1. Refers to A. Boniface, F. D. Corliss, J. C. Pinney, F. A. Reinner, P. A. Rowe.

1011

(6) **CARPENTER, LEWIS VAN**, Box 562, Morgantown, W. Va. (Age 30. Born Wheeling, W. Va.) 1918 B. S. C. E., and 1925 M. S. in C. E., W. Va. Univ. 1926 M. S. in Mun. and San. Eng., Univ. of Ill. TT 2: SP 2. June to Sept. 1915 Asst. Engr. on plans for roads, Piedmont Dist., and Sept. 1915 to Nov. 1916 Draftsman on highways and bridges, West Virginia State Road Bureau. June 1918 to Aug. 1919 Sergeant, 1st Class, 304th Engrs., U. S. Army. TT 1.1: SP 1.1. July 1919 to May 1920 County Engr., Pleasants County, W. Va., in charge of design and construction of roads. TT 0.8: P 0.8: RC 0.8. May to Dec. 1920 Asst. Engr., Town of Thermopolis, Wyo., preparing plans and supervising sewer work. TT 0.7: P 0.7. Dec. 1920 to Sept. 1922 Safety Engr. in charge of structural steel construction, Semet Solvay Co. TT 1.8: P 1.8. Sept. 1925 to June 1926 graduate fellow, Univ.

of Illinois. *TT 0.8: P 0.8.* Sept. 1922 to Sept. 1923 graduate student, Sept. 1923 to Sept. 1925 teaching Hydraulics and San. Eng., and June 1926 to date Asst. Prof., Maa. and San. Eng., West Virginia Univ. *TT 3: P 3: RC 2. TT 10.2: SP 3.1: P 7.1: RC 2.8.* Refers to H. E. Babbitt, R. P. Davis, W. S. Downs, M. L. Enger, A. N. Talbot.

1012

(8) CHADWICK, GEORGE ROBERT, 33 West Grand Ave., Chicago, Ill. (Age 23. Born Grand Rapids, Mich.) 1926 B. S. E., Coll. of Eng., Univ. of Mich. *TT 2: SP 2.* June 1926 to date with Portland Cement Association on technical work. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to J. H. Cissel, L. M. Gram, W. C. Hoad, H. E. Riggs, R. H. Sherlock.

1013

(1) CHHABRA, SIRDARI RAM, Kamalia, Montgomery Dist., Punjab, India. (Age 35. Born Ferozepur, India.) 1912 diploma in Civ. Eng., Bennett Coll., Sheffield, England. March 1913 to Feb. 1914 Asst. Engr. on construction, Jacobabad Kashmore Light Ry., 20-mile subdivision, including heavy masonry and cuttings. *TT 1: P 1: RC 0.5.* May 1914-Jan. 1916 Asst. Engr. on construction at Wardha, remodeling yard, station building, bridge, staff quarters, etc. *TT 1.7: P 1.7.* May 1918 to Sept. 1919 Engr., under Brig.-Gen. R. F. Sowble, on military work, including road and bridge construction, etc., and special work in connection with Waziristan field force. *TT 1.3: P 1.3: RC 0.5.* April 1920-Jan. 1921 Engr. on new capital works, Delhi, including construction of officers' bungalows, council chamber, etc. *TT 0.8: P 0.8.* April 1921 to Sept. 1923 Asst. Executive Engr. on Baghmatti Canal construction, including heavy masonry, cuttings and reinforced concrete work. *TT 2.5: P 2.5: RC 1.5: D 0.5.* Jan. to Oct. 1924 Asst. Engr., Jodhpur Bikaner Ry., maintenance work, Central Dist. At present Engr. at Div. H, Kamalia, Montgomery, Punjab, India. *TT 0.4: P 0.4. TT 7.8: P 7.8: RC 2.5: D 0.5.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1014

(15) CLEMENTS, JAMES STRONG, Jr., Gulf, Tex. (Age 22. Born Copperas Cove, Tex.) 1926 B. S. in C. E., Agri. and Mech. Coll. of Tex. June 1926 to date Rodman, Texas Gulf Sulphur Co. *TT 2: SP 2.* Refers to J. T. L. McNew, T. A. Munson, J. J. Richey, C. E. Sandstedt.

1015

(11) COMPTON, CHARLES ROSS, 328 South Hudson Ave., Pasadena, Cal. (Age 35. Born Fairmont, Cal.) Nov. 1919 to June 1923 Instrumentman, U. S. Indian Irrigation Service, in charge of party on surveys, also on office work. *TT 3.6: SP 3.6.* June 1923 to April 1925 with County Surveyor's Office, Los Angeles County, as Junior Draftsman, Jun. Civ. Engr. on design of drainage works (8½ months) and Senior Civ. Engr. in charge of Drainage Dept. *TT 1.8: SP 0.1: P 1.7: RC 1: D 0.7.* April 1925 to Aug. 1926 Office Engr., Los Angeles County sanitation Dist., on design of trunk sewer system. *TT 1.3: P 1.3: RC 1.3. TT 6.7: SP 3.7: P 3: RC 2.3: D 0.7.* Refers to H. R. Bolton, W. F. Foster, A. Jones, T. I. Phelps, A. M. Rawn, J. E. Rockhold, A. K. Warren.

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(2) COSTELLO, ANGELO, 31 South Union St., Rockland, Mass. (Age 23. Born in Italy.) 1926 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Refers to H. L. Bowman, J. W. Howard, C. M. Spofford, R. G. Tyler.

1017

(10) COTLIN, JOSEPH WALKER, Alabama Power Co., Birmingham, Ala. (Age 26. Born Mobile, Ala.) 1921 B. S. in Mech. Eng., Univ. of Ala. *TT 2: SP 2.* Sept. 1922 to June 1923 Instructor in machine design, School of Mech. Eng., Coll. of Eng., Cornell Univ. *TT 0.8: SP 0.8.* Nov. 1921 to Aug. 1922 Draftsman, and July 1923 to date Draftsman, Designer and Estimator on design of layouts and estimates for future hydro-electric developments, in charge of squad, Alabama Power Co., Birmingham, Ala. *TT 3.8: SP 0.8: P 3: RC 1.3: D 1.7. TT 6.6: SP 3.6: P 3: RC 1.3: D 1.7.* Refers to G. J. Davis, Jr., H. K. Higgins, C. James, J. E. Parker, W. E. Sanford, F. G. Switzer, O. G. Thurlow, W. S. Winn, S. H. Woodard.

1018

(10) CRAIG, EMMETT GIRARD, Alabama Power Co., Birmingham, Ala. (Age 29. Born Rochester, N. Y.) 1923 B. S. in C. E., and 1926 C. E., Rutgers Univ. *TT 2: SP 2.* Jan. 1917 to Aug. 1918 Inspector of material, T. A. Gillespie Co., New York City. *TT 0.6.* June to Sept. 1920 Surveyor, Mason & Hangar Co., Lexington, Ky., being Chf. of Party on road survey. April 1921 to July 1922 Computer, U. S. Coast and Geodetic Survey, Washington, D. C. *TT 1.3.* Aug. and Sept. 1923 Inspector, Board of Water Supply, New York City, at Gilboa Dam. *TT 0.2.* Oct. 1923 to date Engr., Alabama Power Co., Birmingham, Ala., on

power-study investigations for new construction work and for cost of future operation. *TT 2.8: RC 1.5. TT 6.9: RC 1.5.* Refers to C. James, E. H. Rockwell, W. E. Sanford, O. G. Thurlow, S. H. Woodard, E. A. Yates.

1019

(1) **DAVE, SHYAM SHANKER**, B. N. Ry., Raigarh, India. (Age 26. Born Jhansi, India.) 1924 C. E., Civ. Eng. Coll., Ludhiana, Punjab, India. *TT 2: SP 2.* April to Oct. 1924 drainage Officer, Public Works Dept., Nabha City, prepared drainage scheme and project, etc., also surveyed land around Nabha City. *TT 0.6: SP 0.3: P 0.3: D 0.3.* Jan. to Sept. 1925 with Mr. Purahtottanji, Contr., on supervision of buildings, bridges and roads, construction and other structural works. *TT 0.7: P 0.7.* Dec. 1925 to 1926 Bridge Foreman, Central Indian Coal Fields, railway construction, Tori-Division, Chanda in charge of party, set out bridges and curves with transitions, and checked earthwork levels of subdivision; constructed skew girder bridge (60-ft. span) and concrete bridges. *TT 0.2: P 0.2: RC 0.2. TT 3.5: SP 2.3: P 1.2: RC 0.2: D 0.3.* (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1020

(12) **DAWSON, WENDELL**, 218 North Thirteenth St., Corvallis, Ore. Graduating student awarded Portland, Ore., Section prize of Society Junior membership. (Age 30. Born LaHarpe, Ill.) 1926 graduated, Oregon Agricultural Coll. *TT 2: SP 2.* May-July 1920, Sept. 1920 to May 1924 (spare time after Oct. 1923) and May to Oct. 1925 Field Asst., Hydrographer, and Jun. Engr. U. S. Geological Survey, on stream-flow measurements, field construction and location of gauging sites, office computations, and canal regulation and return-flow investigations. May 1924 to May 1925 (while student) Field Asst., U. S. Forest Service, stream-flow measurements, construction of gauging stations, power investigations and computations. Oct. 1925 to June 1926 (while student) field work and computations, U. S. Geological Survey and U. S. Forest Service. *TT 3.3: SP 0.2: P 3.1: RC 0.6.* June 1926 to date with U. S. Forest Service and C. C. Hockley, Cons. Engr., on power computations and investigation of power sites in Southeastern Alaska. *TT 0.1: P 0.1: RC 0.1. TT 5.4: SP 2.2: P 3.2: RC 0.7.* Refers to G. H. Canfield, J. W. Cunningham, P. H. Dater, F. F. Henshaw, C. C. Hockley, S. H. Sims.

1021

(1) **DEIGNAN, JOHN EUGENE**, 46 South Arlington Ave., East Orange, N. J. (Age 23. Born New York City.) 1926 S. B., Mass. Inst. Tech. July to Sept. 1923 Chairman, Pennsylvania R. R. June to Aug. 1925 Asst. Engr., Allis-Chalmers Co., on water-turbine installation. *TT 2: SP 2.* Refers to C. M. Spofford, C. H. Sutherland.

1022

(8) **DOLLINGER, FRANCIS ALBERT**, 1385 W. Wood St., Decatur, Ill. (Age 22. Born Rantoul, Ill.) 1926 B. S. in C. E., Univ. of Ill. June to Sept. 1924 Surveyor, R. G. Flaughner & Co. June 1926 to date, Draftsman, Mississippi Valley Structural Steel Co. *TT 2: SP 2.* Refers to H. Cross, T. D. Mylrea, G. W. Pfekels, T. C. Shedd, C. C. Wiley, C. C. Williams, W. M. Wilson.

1023

(7) **DORRANCE, WILLIAM HENRY**, 4th, 3825 Humphrey Ave., Detroit, Mich. (Age 30. Born Barberton, Ohio.) 1919 B. S. in (Civ.) Eng., Univ. of Mich. *TT 2: SP 2.* Oct. 1919-June 1921 Mechanic, Solvay Process Co., Detroit, Mich. *TT 1.8: SP 1.8.* Aug. 1921 to April 1926 with Dept. of Public Works, Detroit, as follows: Aug. to Oct. 1921 Sewer Inspector; Oct. 1921 to May 1922 Material Inspector; May 1922 to July 1924 Engr. on sanitary survey of City; July 1924 to May 1925 Engr., Material Testing Dept.; May to Sept. 1925 Superv. Inspector of pavements; Sept. 1925 to April 1926 Engr., East Side sewer relief problem. *TT 4.6: SP 0.8: P 3.8: RC 3.7: D 0.6.* April 1926 to date Designing Engr., Mason L. Brown & Son, Detroit. *TT 0.3: P 0.3: D 0.3. TT 3.7: SP 4.6: P 4.1: RC 3.7: D 0.9.* Refers to O. Bonney, M. R. Fisher, J. M. Hartgering, J. R. Hendry, C. W. Hubbell, M. F. Wagnitz, F. E. Weber.

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(10) **DOW, DANIEL FREDERICK**, Care, Phoenix Utility Co., Asheville, N. C. (Age 43. Born Exeter, N. H.) 1900-1904 student, Massachusetts Inst. of Technology. *TT 1.3: SP 1.3.* July 1905 to June 1906 Transmittan and Asst. Engr. for Luther Dean, Engr., supervision of construction of interurban railroad, Worcester to Leominster, Mass., etc. *TT 0.9: SP 0.4: P 0.5: RC 0.5.* June 1906 to Jan. 1918 member of firm, Fairfield & Dow, Mineola, N. Y., engineering and surveying, street railroad location, highway construction, sewage disposal, topographic surveys, subdivisions, preparation and supervision of contracts. *TT 11.5: P 11.5: RC 11.5: D 5.* Jan. 1918 to May 1919 Civ. and Structural Engr., Atlantic Loading Co., on design, construction and operation of shell-loading plant and village at Amatol, N. J. *TT 1.2: SP 0.1: P 1.1: RC 1.1: D 1.* July to Oct. 1919 Res. Engr., Carolina Power &

Light Co., in charge of work on flood damage repairs, Buckhorn H. E. Station; large earth dike, highway bridge, spillway changes. *TT 0.3: P 0.3: RC 0.3: D 0.1.* Oct. 1919 to Jan. 1920 Engr., Elec. Bond & Share Co., on field investigation for location, steam-electric station in central Texas. *TT 0.2: P 0.2: RC 0.2.* Feb. to Dec. 1920 Asst. Supt. and Res. Engr., Texas Constr. Co., on construction of 10 000-kw. steam-electric station at Olden, Tex., including 40-ft. concrete dam on Leon River. *TT 0.9: P 0.9: RC 0.9.* Aug. 1922 to Feb. 1923 Supt., Central Eng. & Constr. Co., on 2 000-kw. hydro-electric plant at Salmon Falls, N. H., in charge of contract for construction. *TT 0.5: P 0.5: RC 0.5.* Feb. 1923 to Nov. 1924 Res. Engr., Phoenix Utility Co., on construction of 30 000-kw. Cape Fear steam-electric station near Moncure, N. C. *TT 1.7: P 1.7: RC 1.7.* Nov. 1924 to date Engr., Pigeon River Power Co., on investigation for hydro development of Pigeon River, N. C., with transmission lines; Res. Engr. for Phoenix Utility Co., on additions to Asheville Steam Plant and various transmission lines in vicinity of Asheville. *TT 1.5: P 1.5: RC 1.5: D 0.2. TT 20: SP 1.8: P 18.2: RC 18.2: D 6.3.* Refers to S. B. Bowne, J. O. Brown, A. C. Clogher, L. Dean, V. F. Hammel, W. S. Merrill, C. N. Phillips, W. H. Seaman.

1025

(2) **DRAPEAU, LUCIEN JOSEPH**, 17 Mt. Washington St., Lowell, Mass. (Age 26. Born Lowell, Mass.) 1926 B. S., Mass Inst. Tech. *TT 2: SP 2.* Refers to J. B. Babcock, 3d, C. M. Spofford, C. H. Sutherland.

1026

(11) **DUNKEL, OTTO**, P. O. Box 36, Los Angeles, Cal. (Age 48. Born Iserlohn, Westfalla, Germany.) 1901 Engr., Govt. School of Eng. *TT 2: SP 2.* May 1902 to Nov. 1903 Structural Draftsman, until May 1903 with West Side Structural Co., Watervliet, N. Y., then with T. H. Brooks Co., Cleveland, Ohio. *TT 1.5: SP 1.5.* Feb. 1904 to date with Llewellyn Iron Works, Los Angeles, Cal., as Structural Draftsman, Checker and Designer, Chf. in charge of structural drafting and design, and (11 years) Chf. of all engineering departments, including Structural, Mechanical, Boiler, Tank and Plate. *TT 22.5: SP 2: P 20.5: RC 15: D 5.5. TT 26: SP 5.5: P 20.5: RC 15: D 5.5.* Refers to E. W. Cunningham, H. W. Dennis, R. P. Miller, B. Noice, R. J. Reed, A. J. Werner.

1027

(11) **FAIN, WILLIAM HART**, Box 177, Lompoc, Cal. (Age 22. Born Coleman, Tex.) 1926 A. B., Stanford Univ. June to Oct. 1923 Rodman, Pacific Oil Co., Taft, Cal., ran instrument. June to Oct. 1924 Rodman, Pacific Gas & Elec. Co., Fordyce Dam, Cal., ran instruments, inspection on concrete and rock work, progress reports. May to Oct. 1925 Asst. Engr., Stanford Univ., inspection and supervision, enlargement of football stadium. June 1926 to date Engr., National Magnesia Mfg. Co., in charge of construction of plant. *TT 2: SP 2.* Refers to S. Baker, C. D. Marx, C. Moser, D. W. Ormsbee, L. B. Reynolds, E. C. Thomas, C. B. Wing.

1028

(9) **FLEMING, ELMER MORTON**, 610 Merchants Bank Bldg., Indianapolis, Ind. (Age 37. Born Conshohocken, Pa.) 1915 B. S. in C. E., Univ. of Pa. *TT 2: SP 2.* May to Oct. 1907 Chainman, June to Oct. 1910 Rodman, April to Nov. 1912 Draftsman, and Feb. 1916 to May 1917 Leveler, Constr. Dept., Pennsylvania R. R., on location and construction, maps, grade lines, estimates, design of concrete arches, culverts, bridge abutments, etc. *TT 2.3: SP 2.3: D 0.5.* June to Oct. 1914 Road Asst., Portland Cement Association, on inspection and later in charge of concrete street construction in Williamsburg, Pa. Feb. 1915 to Feb. 1916 Asst. Supt. for W. H. Hayden, Contr., on grading sidewalk, macadam and gravel road construction, also gave lines and grades. *TT 1: P 1: RC 1.* May 1917 to Jan. 1918 Res. Engr., Illinois Highway Dept., in charge of construction, by contractors, of concrete pavements, etc., involving lines and grades and redesign of small drainage structures, also laid grade lines and estimated quantities. *TT 0.7: SP 0.2: P 0.5: RC 0.5: D 0.2.* Jan. to Aug. 1918 First Asst. Engr., Big Creek Coal Co., Harrisburg, Ill., under Chf. Engr. had charge of surface and underground surveys and construction, and office work for five coal mines; surveyed, designed and laid out new motor roads, etc. *TT 0.6: P 0.6: RC 0.6: D 0.6.* Aug. 1918 to May 1919 Chf. of Party with Day & Zimmerman, Philadelphia, Pa., on lines and grades for construction of concrete pier (1 500 ft.) with concrete warehouses (Quartermaster Terminal). *TT 0.7: P 0.7.* May 1919 to May 1921 and Dec. 1922 to April 1926 with Illinois Highway Dept., until May 1921 as Acting Road Engr. in charge of office preparing road plans and specifications, etc., later had charge of construction of Bates Experimental Road; after Dec. 1922 Gen. Inspector, acting as Field Asst. to Constr. Engr., supervised road and bridge construction, introduced new methods, etc. *TT 5.3: P 5.3: RC 5.3: D 1.* June 1921 to Dec. 1922 Asst. Supt. of Maintenance, Montgomery County (Pa.) Highway Dept., supervised maintenance of State roads (275 miles) and had direct charge of construction of 4 miles of macadam. *TT 1.5: P 1.5: RC 1.5.* April 1926 to date Field Engr., Portland Cement

Association advising city and county engineers on plans and specifications, inspecting construction, etc. *TT 0.3: P 0.3. TT 14.4: SP 4.5: P 9.9: RC 8.9: D 2.3.* Refers to G. F. Burch, H. F. Clemmer, E. D. Dryfoose, C. M. Hathaway, A. H. Hunter, F. B. Oren, A. E. Stoddard, A. W. Wand.

1029

(10) **FLOM, SAMUEL LOUIS**, 320 Lafayette Arcade, Tampa, Fla. (Age 25. Born Northampton, Pa.) Registered Engr., State Laws of Florida. 1921 C. E., Lehigh Univ. *TT 2: SP 2.* June 1921 to June 1922 Engr., Spring Brook Water Supply Co., Wilkes-Barre, Pa., acting as Draftsman, Designer of tunnel, Rodman and Instrumentman. *TT 1: SP 0.8: P 0.2: D 0.2.* June 1922 to Feb. 1923 Engr., J. P. Howells Constr. Co., Wilkes-Barre, acting as Gen. Foreman of road and sewer work. *TT 0.7: SP 0.2: P 0.5: RC 0.5.* Feb. 1923 to date with Truscon Steel Co., Youngstown, Ohio, as Detailer, Designer, Checker, Chf. Engr. of Florida Dist., and Branch Mgr. of Tampa Office; past two years has been in charge of about fifty buildings. *TT 3.3: SP 0.3: P 3: RC 1.7: D 2. TT 7: SP 3.3: P 3.7: RC 2.2: D 2.* Refers to W. T. Barnes, R. G. Church, R. J. Fogg, N. W. Green, G. A. Hanson, O. W. Irwin, H. B. Miller.

1030

(1) **FOLLETT, DONALD GORDON**, 419 West 121st St., New York City. (Age 30. Born New York City.) 1926 C. E., Columbia Univ. *TT 2: SP 2.* May to July 1917 Computer, Eng. Dept., Ry. Steel-Spring Co., New York City, computing, drafting, simple design, etc. *TT 0.2: SP 0.2.* Sept. 1917 to Dec. 1918 Transitman and Chf. of Party, Dept. of Public Improvements, Newark, N. J., on raising of Oak Ridge Dam, construction lines and grades, surveys, computations, etc. *TT 1.2: SP 1.2.* Dec. 1918 to Sept. 1923 Transitman, Chf. of Party and Asst. Engr., and June to Sept. of years 1924 and 1925 Asst. Engr., North Jersey Dist. Water Supply Comm., Newark, preliminary surveys, construction and valuation work on Wanaque Project. *TT 4.7: SP 1.8: P 2.9: RC 2.2: D 0.7. TT 8.1: SP 5.2: P 2.9: RC 2.2: D 0.7.* Refers to E. M. Bassett, A. H. Beyer, C. J. Craigmille, L. G. Cutler, J. K. Finch, N. C. Holdredge, A. H. Pratt, A. L. Sherman.

1031

(11) **FOX, PAUL SAMUEL**, Box 750, Santa Fe, N. Mex. (Age 29. Born Caldwell, Kans.) 1921 B. S. in C. E., and 1925 C. E. Univ. of Kans. 1924 M. S. in San. and Mun. Eng., Harvard Univ. *TT 2: SP 2.* June to Sept. 1920 Second Asst. Engr., and Feb. 1922 to April 1923 Asst. Engr., Kansas State Board of Health. *TT 1.2: P 1.2.* Sept. 1920 to June 1921 (while student) and Sept. 1921 to Feb. 1922 Instructor in Civ. Eng., Univ. of Kansas. *TT 0.4: P 0.4.* June to Aug. 1921 Asst. County Engr., Douglas County, Kans. *TT 0.2: P 0.2.* April 1923 to date (except Sept. 1923 to June 1924 graduate student at Harvard Univ.) Chf., Div. of San. Eng. and Sanitation, New Mexico Bureau of Public Health. *TT 3.3: P 3.3: RC 2.5. TT 7.1: SP 2: P 5.1: RC 2.5.* Refers to E. Boyce, J. C. Harvey, C. A. Haskins, A. H. Jewell, A. P. Learned, W. C. McNowen, H. A. Rice, C. C. Williams.

1032

(1) **FREEMAN, ORVILLE WILLIAM**, 448 West 20th St., New York City. (Age 24. Born West Orange, N. J.) 1926 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Refers to C. B. Breed, H. M. Freeman, C. M. Spofford, C. A. Winston.

1033

(2) **FREEMAN, RAYMOND ALLISON**, 114 The Fenway, Boston, Mass. (Age 20. Born Brooklyn, N. Y.) 1926 B. S., Mass. Inst. Tech. *TT 2: SP 2.* July to Aug. 1923 and June to Aug. 1924 Tracer with Stone & Webster. Aug. to Sept. 1925 Asst., Massachusetts Inst. of Technology Surveying Camp. June 1926 to date Instrumentman, D. P. Robinson Co., yard changes, Boston & Maine R. R. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to H. L. Bowman, C. M. Spofford.

1034

(1) **GAUGUIN, PEDRO URIBE**, 470 Carrera 8, Bogota, Colombia. (Age 46. Born Paris, France.) 1904 Engr. of Constr., School of Engrs., Univ. of Lausanne. *TT 2: SP 2.* 1905 to date Prof., School of Eng., National Univ., Bogota, Colombia. 1905 to 1907 Municipal Engr., Bogota. *TT 2: P 2.* 1907 to 1910 Engr., Technical (Cons.) Div., Dept. of Public Works, Bogota. *TT 3: P 3: RC 2.5.* 1910 to 1914 Res. Engr., Pacific Ry. Co., in charge of building part of railway, Dagua to Cali. *TT 3.3: P 3.3.* 1915 to 1918 Chf. Engr. on extension of railway of Tolima, Govt. of Colombia, in charge of plan and construction between Chicoral and Ibague. *TT 3: P 3: RC 3.* 1919 to 1922 Chf. Engr., in charge of plan and construction of Ibague-Ambalema Ry., Pedro A. Lopez & Co. *TT 3: P 3: RC 3.* 1923 to 1925 Principal, School of Eng., National Univ., Bogota, Dept. of Public Instruction. *TT 2.6: P 2.6: RC 2.6.* 1925 to date member, Commission selecting route for Trunk Ry. of the

West, Colombia, Antioch Ry. *TT 0.5: P 0.5: RC 0.5.* *TT 19.4: SP 2: P 17.4: RC 11.6.* Refers to J. N. H. Cornell, V. R. Irvine, G. Uribe H. (Apples in accordance with Sec. 1, Art. I, of the By-Laws.)

1035

(8) GERDES, WILLIAM FREDERICK, Jr., 336 South Twenty-fourth St., Quincy, Ill. (Age 24. Born St. Louis, Mo.) 1926 B. S., Univ. of Ill. *TT 2: SP 2.* June to Sept. 1922 Draftsman, and April 1924 to Jan. 1925 Constr. Engr., Michelman Steel Constr. Co., Quincy, Ill. Jan. to Dec. 1925 sales promotion work, Fairbanks, Morse & Co., Chicago, Ill. *TT 0.8: SP 0.8.* *TT 2.8: SP 2.8.* Refers to H. Cross, G. W. Pickels, T. C. Shedd, J. Vawter, C. C. Wiley, C. C. Williams, W. M. Wilson.

1036

(2) GIORDANO, COSTANTE ANTHONY, 88 Wooster St., New Haven, Conn. (Age 29. Born New Haven, Conn.) 1921 Ph. B., Sheffield Sci. School. *TT 2: SP 2.* 1921 to 1922 graduate student, Civ. Eng. Dept., Yale Univ. *TT 1: SP 1.* Aug. 1922 to date Engr. and Draftsman, Bureau of Eng., New Haven, Conn. *TT 4: P 4: D 2.* *TT 7: SP 3: P 4: D 2.* Refers to W. V. Barry, C. T. Bishop, C. M. Blair, C. Blakeslee, H. H. Gladding, J. C. Tracy, H. G. Wynne.

1037

(2) GOSTANIAN, GOSTAN KOZAR, 32 Lincoln St., Somerville, Mass. (Age 23. Born Harpoot, Turkish Armenia.) 1926 B. S., Mass. Inst. Tech. At present with Pennsylvania Highway Dept. *TT 2: SP 2.* Refers to H. L. Bowman, C. H. Sutherland.

1038

(1) GOTTLIEB, ALEX PHILIP, 15 Andrew St., Bayonne, N. J. (Age 23. Born Suwalki, Poland.) 1926 B. S., Cooper Union. Feb. 1920 to Feb. 1921 Tracer and Detailer, Babcock & Wilcox Co., Bayonne, N. J. *TT 1: SP 1.* Oct. 1921 to April 1923 Jun. Structural Steel Estimator, Harris Structural Steel Co., New York City. Oct. 1925 Structural Steel Detailer, Lange & Noska, Cons. Engrs., New York City. *TT 1.6: SP 1.6.* April 1923 to Oct. 1925 with Hinkle Iron Co., and Nov. 1925 to date with Hinkle Steel Constr. Co., as Jun. Structural Steel Estimator. *TT 3.2: SP 3.2.* *TT 5.8: SP 5.8.* Refers to H. R. Codwise, F. E. Foss, F. Meister, G. Morrison, J. C. Riedel, J. P. J. Williams.

1039

(10) GRAHAM, LYMAN DAVIS, U. S. Coast and Geodetic Survey Steamer Lydonia, Wilmington, N. C. (Age 35. Born Colebrook, N. H.) 1915 B. S. in Civ. Eng., Pa. State Coll. *TT 2: SP 2.* Sept. 1909 to Sept. 1911 Tracer and Draftsman, Penn Bridge Co., Beaver Falls, Pa., computing weights, etc. *TT 1.7: SP 1.7.* June 1915 to date (except 1 5/12 years Lieut., with U. S. Navy, acting as Navigating and Executive Officer) Field Officer, and since July 1920 Hydrographic and Geodetic Engr., U. S. Coast and Geodetic Survey, on surveys, including geodetic control, along Atlantic and Gulf Coasts and in Philippine Islands, in responsible charge of work as Prin. Asst. (3 years) and as Chf. of Party (2 3/10 years); 1923-1924 in charge of hydrographic, topographic and aerial survey of Lake Okeechobee, in Florida Everglades. *TT 9.7: SP 2.3: P 7.4: RC 5.3: D 0.5.* *TT 13.4: SP 6: R 7.4: RC 5.3: D 0.5.* Refers to L. O. Colbert, R. L. Faris, F. H. Hardy, E. O. Heaton, E. H. Pagenhart, W. E. Parker, G. T. Rude, R. L. Schoppe, P. C. Whitney.

1040

(1) GRUESSNER, EDWIN ALLAN, 1554 Ocean Ave., Brooklyn, N. Y. (Age 25. Born New York City.) 1924 C. E., Cornell Univ. *TT 2: SP 2.* July to Oct. 1924 with H. J. Nurick, Brooklyn, N. Y., as Supt. of construction on a garage. *TT 0.3: SP 0.3.* Oct. 1924 to Jan. 1925 Jun. Asst. Engr., and Jan. to June 1925 Jun. Engr., Board of Transportation, New York City, acting as Transmittan, etc. *TT 0.7: SP 0.7.* June 1925 to April 1926 Surveyor and Draftsman in private practice. *TT 0.8: P 0.8: RC 0.8.* April to June 1926 Draftsman, Fred Snare Corporation, New York City, on layout of addition to steel and concrete pier. *TT 0.1: P 0.1.* *TT 3.9: SP 3: P 0.9: RC 0.8.* Refers to F. A. Barnes, E. N. Burrows, C. Crandall, J. E. Perry, F. J. Seery, L. C. Urquhart.

1041

(1) GUTEKUNST, GEORGE JOHN, 73 New St., Port Richmond, N. Y. (Age 34. Born West New Brighton, N. Y.) Completed course in Structural Drafting at International Correspondence Schools of Scranton, Pa. Jan. 1906 to April 1909 and Dec. 1915 to June 1916 Structural Steel Draftsman with Milliken Bros., Staten Island, N. Y. *TT 3.8: SP 3.2: P 0.6.* April 1909 to Oct. 1912 Structural Steel Draftsman, Levering & Garrigues Co., New York City. *TT 3.6: SP 3.6.* Oct. 1912 to Dec. 1915 Structural Steel Draftsman and Squad Boss, The Communipaw Co., New York City. *TT 3.2: P 3.2: RC 2.* June 1916 to date Chf. Engr., The Tilt-Hargan Co., New York City, in responsible charge of all estimating, designing and

supervision of industrial buildings, water-front improvements, docks, pier sheds, etc. *TT 10.1: P 10.1: RC 5.1: D 5. TT 20.7: SP 6.8: P 13.8: RC 7.1: D 5.* Refers to H. S. Harding, L. D. Rights, R. H. Sartor, G. E. Tilt, R. W. Tull, H. M. Ward.

1042

(10) **HARDAWAY, ROBERT EARLY, Jr.**, Columbia, S. C. (Age 36. Born Tuscaloosa, Ala.) 1914 C. E., Univ. of Tex. *TT 2: SP 2.* June to Nov. 1909 Calculator, Draftsman and Transitman, Southern Pacific of Mexico. Summer 1910 Levelman on location of Interurban Ry., El Paso to Ysleta, Tex. Summer 1912 on surveys at Deming, N. Mex. Summer 1914 and Aug. 1916 to date (except June 1918 to Jan. 1919 Private, Corporal, Officers' Training Camp, 2d Lieut., Engrs., U. S. Army Engr. Corps) with Hardaway Contr. Co. as follows: summer 1914 Asst. Engr., and Aug. 1916 to March 1917 Engr., on hydro-electric development at Lookout Shoals, N. C. March to May 1917 Paymaster and Shipping Clerk at Nitrolee, S. C.; May to Dec. 1917 Asst. Engr. on hydro-electric development at Lugoff, S. C., instrument work on plant and track installation, and Dec. 1917 to June 1918 Engr. on hydro-electric plant, tunnel and earth fill dams at Bridgewater, N. C., also building large crusher and mixer plant at Badin, N. C. Jan. to March 1919 Engr. on final estimate, hydro-electric development at Bridgewater, N. C.; March to Aug. 1919 Supt. on street paving, at Charlotte, N. C.; Sept. 1919 to July 1920 Asst. Engr. on estimates at Lugoff, and Supt. on building power house and warehouses, Eagle and Phoenix Mills, Columbus, Ga.; July 1920 to April 1921 Engr. obtaining field data for and on design of buildings and dams; also final estimates on two hydro-electric projects; since April 1921 Supt. on construction of bridge and earth fill approach, Wateree River, for South Carolina Highway Dept., and on construction of reinforced concrete arch bridges, for North Carolina State Highway Commission, over Yadkin River near Spencer and over Pee Dee River near Rockingham, and (since Jan. 1926) for South Carolina State Highway Dept., over Congaree River in Columbia. *TT 10.3 SP 2.2: P 8.1: RC 7: D 0.5. TT 12.3: SP 4.2: P 8.1: RC 7: D 0.5.* Refers to E. C. H. Bantel, G. M. Braune, B. H. Hardaway, B. H. Hardaway, Jr., S. T. Jones, Jr., E. L. Scruggs, T. U. Taylor.

1043

(4) **HOEY, JOHN VALLELY**, 824 West Marshall St., Norristown, Pa. (Age 35. Born Conshohocken, Pa.) 1911 B. A., LaSalle Coll., Philadelphia, Pa. 1917 B. S. in Civ. Eng., Univ. of Pa. *TT 2: SP 2.* June to Oct. 1917 Foreman, McNichol P. & C. Co., Philadelphia, in charge of highway construction. *TT 0.3: P 0.3.* Oct. 1917 to Jan. 1920 with Philadelphia, & Reading Ry., Philadelphia, until Jan. 1918 as Transitman, then Asst. Supervisor of track, in charge of track maintenance and construction of new freight yards. *TT 2.3: SP 0.3: P 2: RC 2.* Jan. to Oct. 1920 Draftsman, D. Lupton Sons Co., Philadelphia, detailing and laying out steel sash. *TT 0.8: SP 0.8.* Oct. 1920 to June 1922 Aeronautical Draftsman, U. S. Navy Yard, Philadelphia, detailing and laying out structural members for dirigible. *TT 1.7: SP 1.7.* June 1922 to June 1923 Instructor in Civ. Eng. and Drawing, Catholic Univ. of America, Washington, D. C., in charge of railroad, topographical and geodetic surveying. *TT 1: P 1: RC 1.* June 1923 to date Sales Engr., Consolidated Expanded Metal Cos., Philadelphia, in charge of reinforced concrete and bank vault sales and design. *TT 3: P 3: RC 3. TT 11.1: SP 4.8: P 6.3: RC 6.* Refers to C. R. Berry, M. Duncan C. H. Hitchcock, B. J. O'Rourke, M. W. Orr, S. H. Widdicombe.

1044

(10) **HOLMES, HENRY McCALL, Jr.**, 522 Norwood St., Spartanburg, S. C. (Age 22. Born Union, S. C.) 1924 B. S. in C. E., The Citadel, Mil. Coll. of S. C. 1926 M. S. in C. E., Univ. of N. C. *TT 2: SP 2.* Refers to G. M. Braune, T. Saville.

1045

(1) **HOPE, EDWARD SWAIN**, Grenfell Mission, St. Anthony, Newfoundland. (Age 25. Born Atlanta, Ga.) A. B., Morehouse Coll., Atlanta, Ga. 1926 B. S., Mass. Inst. Tech. *TT 2: SP 2.* June to Sept. of years 1917, 1920 and 1921 Engr., successively acting as Hoist Operator on building construction, Steamfitter, erecting and operating hoist on building construction, and laying out and inspecting concrete roads and walks, June to Sept. 1923 Timekeeper, being Asst. to Supt. of Bldgs. and Grounds, Spelman Coll., Atlanta, Ga. and June to Aug. 1924 and June to Sept. 1925 Engr., being Gen. Asst. to Supt. of Constr., Spelman Coll., designing, laying out and directing work on 1000-ft. steam trench, inspecting reinforced concrete building, designing built-in furniture, etc., all for W. T. Courtney, at Spelman and Morehouse Colleges. June 1926 to date Engr., Grenfell Association, on water-power survey for Mission at St. Anthony, Newfoundland, location of penstock and power house, etc. *TT 0.9: SP 0.9. TT 2.9: SP 2.9.* Refers to H. L. Bowman, C. M. Spofford.

1046

(1) **HORNBY, POUL LAHN**, 83 Delaware Ave., Flushing, N. Y. (Age 28. Born Odense, Denmark.) 1919 B. T. Ingenior, Horsens Byggnings-Teknikum. April 1919 to April 1922 Asst., Harbor Engr., Odense, until March 1920 on design of ship canal (24 ft. deep, 14 miles long) to Odense, with new dock walls, piers, relocation of highways, construction of breakwaters, smaller bridges, earth dykes, new islands; after April 1920 supervision of contractor's work on part of work. *TT 3: P 3: RC 2: D 1.* April 1922 to Aug. 1923 with Eng. Div., Danish Army, until Sept. 1922 in training, Oct. 1922 to Feb. 1923 Lieutenant School, March-Aug. 1923 "Kornet" in responsible charge of building bridges. *TT 0.5: P 0.5: RC 0.5.* Nov. 1923 to Feb. 1924 Draftsman, New York Edison Co., Temporary Survey Bureau, New York City, drafting, recording and computation of sizes of cables and conduits. *TT 0.2: P 0.2.* March 1924 to date Reinforced Concrete Designer, Elec. Bond & Share Co., New York City, design of Hydro-electric power plants, layout of stations, station substructure, dams, intakes, tunnels, penstocks, 11-in. wood stave pipe on steel saddles, three reinforced concrete chimneys (complete design and investigations of temperature stresses) turbine pedestals, railroad track layout. *TT 2.4: P 2.4: D 2.4. TT 6.1: SP 0.2: P 5.9: RC 2.5: D 3.4.* Refers to G. Blaauw, W. E. Brown, L. R. Cobb, W. S. Merrill, H. H. Steinhäuser, H. R. Stocker.

1047

(9) **HUGHES, THOMAS ROGERS**, Lewis Place, Oxford, Ohio. (Age 23. Born Oxford, Ohio.) 1924 A. B., Miami Univ. 1926 S. B., Mass. Inst. Tech. June to Sept. 1925 drafting and estimating, Bldg. Products Co. June 1926 to date with American Water Works & Elec. Co., New York City. *TT 2: SP 2.* Refers to H. K. Barrows, C. M. Spofford.

1048

(7) **HUNT, HAROLD WINFRED**, Redfield, Iowa. (Age 23. Born Shannon City, Iowa.) 1926 B. E. (Structural), State Univ. of Iowa. *TT 2: SP 2.* June to Sept. 1925 and June 1926 to date Supervisor, American Vibrolithic Corporation, in charge of vibrolithic process of paving. *TT 0.2: P 0.2: RC 0.2. TT 2.2: SP 2: P 0.2: RC 0.2.* Refers to A. H. Holt, R. B. Kittredge, B. J. Lambert, F. A. Nagler, E. L. Waterman, S. M. Woodward.

1049

(14) **JOHNSON, WILLIAM SCOTT**, Board of Health, Jefferson City, Mo. (Age 30. Born Emporia, Kans.) A. B., and 1921 B. S., School of Eng., Kans. Univ. *TT 2: SP 2.* June 1921 to Oct. 1922 Instrumentman, and June to Sept. 1923 Res. Engr. in charge of highway and bridge construction on Federal Aid Road Project, Kansas Highway Dept. *TT 1.5: SP 1.3: P 0.2: RC 0.2.* Oct. 1922 to June 1923 Supt., water purification and softening plant, City of Marion. *TT 0.7: P 0.7: RC 0.7.* Sept. 1923 to date with Missouri State Board of Health, until March 1926 as Asst. San. Engr. on field investigations and surveys of water-purification and sewage-disposal plants, malaria conditions, milk and resort sanitation, reports, checking plans and specifications; since then Chf. San. Engr., Director of Div. of San. Eng. *TT 2.9: P 2.9: RC 2.9. TT 7.1: SP 3.3: P 3.8: RC 3.8.* Refers to E. Boyce, C. A. Haskins, G. W. Putnam, H. A. Rice, I. Rogers, J. A. Strang, N. T. Veatch, Jr., C. C. Williams.

1050

(1) **JORDAN, FRANK**, 3210 Perry Ave., New York City. (Age 35. Born New York City.) 1906 to 1908 student, Cooper Union Inst. *TT 0.7: SP 0.7.* 1908 to 1911 Asst. Estimator, John T. Brady & Co., Bldrs., New York City. *TT 2: SP 2.* 1911 to 1914 Draftsman, Rockport Granite Co., New York City. *TT 3: SP 3.* 1914 in private practice as Quantity Surveyor. *TT 1: P 1: RC 1.* 1915 to 1916 Draftsman and Head Draftsman, Georgia Marble Co., Tate, Ga. *TT 1.5: SP 1.5.* 1916 to 1918 Draftsman and Squad Boss, concrete warehouses, Turner Constr., New York City. *TT 2: SP 1.5: P 0.5: RC 0.5.* 1918 to 1919 Designer, Westinghouse, Church, Kerr & Co., New York City, structural steel mill and office buildings. *TT 1: P 1: RC 1.* 1919 to 1923 Designer, Terry Mfg. Co., New York City, mill buildings, steel cranes and derricks, concrete foundations. *TT 4: SP 0.5: P 3.5: RC 1.5: D 2.* 1923 to 1926 Designer, McKenzie, Voorhees & Gmelin, Archts., New York City, structural steel office buildings, concrete buildings and foundations. *TT 3: P 3: RC 2: D 1. TT 18.2: SP 9.2: P 9: RC 5: D 4.* Refers to G. B. Andreen, R. A. Backus, A. B. Heiser, S. F. Voorhees, S. Willmot, J. B. Wright.

1051

(9) **KAMINSKY, MORRIS MOSES**, 952 South Illinois St., Indianapolis, Ind. (Age 25. Born Indianapolis, Ind.) Licensed Civ., Elec. and Mech. Engr., State of Ind. 1926 B. S. E. E., Purdue Univ. *TT 2: SP 2.* Jan. to June 1918 Instrumentman, P. C. C. & St. L. R. R. Co. *TT 0.5: SP 0.5.* June 1918 to Sept. 1924 with Chas. Grossman, Cons. Engr., Indianapolis, Ind., as Designing Engr. on large reinforced concrete bridges and buildings, retaining walls, brick and reinforced concrete smoke stacks, power plants, sewerage systems,

water-works distribution systems, earth and concrete dams, movable gates for hydro-plants and hydro-electric plant, heating and ventilating systems, reservoirs and industrial plant layouts. *TT 6.2: SP 4: P 2.2: RC 2.2: D 5.2.* Sept. 1924 to June 1926 student, Purdue Univ.; also designed work for engineers and architects, including (Aug. 1925) large reinforced concrete bridge at Huntington, Ind., for Chas Brossman. June 1926 to date with W. J. Holliday & Co., Indianapolis, in charge of design of all reinforced concrete structures. *TT 0.2: P 0.2: RC 0.2: D 0.2. TT 8.9: SP 6.5: P 2.4: RC 2.4: D 5.4.* Refers to C. Brossman, H. O. Garman, B. Kay, J. W. Moore, H. F. Passel.

1052

(8) KEARNEY, JOHN JOSEPH, 3238 Wenonah Ave., Berwyn, Ill. (Age 35. Born Berwyn, Ill.) 1908 to 1917 with Underground Constr. Co., Chicago, Ill., until 1912, as Rodman and Asst. to engineers on construction of tunnels, bridges, buildings, etc., and after 1912 Engr. in charge of testing and supervising construction of track, building, bridges and tunnels. *TT 9: SP 4: P 5: RC 5: D 5.* 1917 to 1919 U. S. Aviator, also Squadron Commander and on research. *TT 2: P 2: RC 1: D 1.* 1919 to date City Engr., Berwyn, Ill., in responsible charge of design and supervision of public improvements (one season over \$2500,000, total over \$10,000,000). *TT 6: P 6: RC 6: D 6. TT 17: SP 4: P 13: RC 12: D 12.* Refers to C. E. DeLeuw, C. B. Dugan, R. W. Emmert, J. B. Hittel, H. E. Hudson, R. F. Kelker, Jr., A. L. Webster.

1053

(11) KEMPER, PAUL RODGERS, Box 126, Alhambra, Cal. (Age 22. Born Moorhead, Minn.) 1926 B. S. in C. E., Univ. of N. Dak. Summers 1919-1923 and 1925 Constr. Foreman for Geo. W. Kemper, Contr., on bridge, road, dam and sewerage-disposal construction. Summer 1924 Asst. Res. Engr., Wurster Constr. Co., Los Angeles, on location of anchor bolts in large theatre at Long Beach, Cal., etc. *TT 2: SP 2.* Refers to E. F. Chandler, W. H. Hoyt, O. M. Leland, J. A. McLean, E. H. Morris, W. H. Robinson.

1054

(14) KNIESTEDT, EWALD MATTHEW, 4944 Forest Park Boulevard, St. Louis, Mo. Graduating student awarded St. Louis Section prize of Society Junior membership. (Age 24. Born St. Louis, Mo.) 1926 B. S., Washington Univ. June to Sept. 1925 Asst. to Chf. Engr. West St. Louis Water & Light Co., locating and staking water valves. *TT 2: SP 2.* Refers to E. O. Sweetser, J. L. Van Ornum.

1055

(8) KOEBERLE, HAROLD, 6828 Dorchester Ave., Chicago, Ill. (Age 23. Born Sumner, Iowa.) 1925 B. S. in C. E., Iowa State Coll. *TT 2: SP 2.* June to Sept. 1924 Asst. to Campus Engr., Iowa State Coll., laying out paving, inspecting and surveying for maps. June 1925 to date Draftsman, Illinois Steel Co., South Works, maintenance and construction, map drafting, some surveying. *TT 1: SP 1. TT 3: SP 3.* Refers to T. R. Agg, R. A. Caughey, J. S. Dodds, A. H. Fuller, C. S. Nichols.

1056

(4) KOWALCHIK, STEPHEN ALEXIS, 116 West Grant St., Olyphant, Pa. (Age 22. Born Olyphant, Pa.) 1926 B. S., Pa. State Coll. *TT 2: SP 2.* Refers to R. O'Donnell, E. D. Walker.

1057

(6) KUEHNE, WALTER FRED, 1230 Franklin Ave., Wilkinsburg, Pa. (Age 23. Born Mankato, Minn.) 1926 B. S. in Civ. Eng., Iowa State Coll. July 1926 to date Apprentice, McClintic-Marshall Constr. Co. *TT 2: SP 2.* Refers to T. R. Agg, R. A. Caughey, J. S. Dodds, W. L. Foster, A. H. Fuller.

1058

(10) LARKEY, LAURENCE JAY, 757 Echols Ave., Memphis, Tenn. (Age 22. Born Sedalia, Mo.) 1926 B. S. in C. E., Univ. of Tenn. *TT 2: SP 2.* Refers to N. W. Dougherty, L. W. Frierson, E. L. Harrison, H. N. Howe.

1059

(3) LEONARD, JAMES IRVING, Y. M. C. A., Gloversville, N. Y. (Age 34. Born Newark, N. J.) May 1909 to July 1917 with New York Central R. R., until April 1914 as Blueprint Clerk, Tracon, Chainman, Rodman, Instrumentman and Draftsman; from May 1914 to Dec. 1915 Chf. of Party in field charge of construction of track layouts, bridges and structures, Res. Engr.'s office, Utica, N. Y.; and after Jan. 1916 Draftsman and Designer, railroad masonry, with Engr. of Structures, New York City. *TT 3.2: SP 5: P 3.2: D 1.6.* Aug. 1917-Dec. 1918 with A. E. F., France, until March 1918 as Civilian Engr. at Paris, in charge of squad on railroad yard and terminal design, then Eng. Asst. to supply office for Chf. of Utilities, Tours, and after Aug. 1918 Asst. to Water Supply Engr., Base Sec. No. 7, LaRoche, in charge of field parties and of office and design. *TT 1.4: P 1.4: RC 1.4: D 1.1.* March-Dec. 1919 Designer of masonry structures, with Engr. of Structures, N. Y. C. R. R.

TT 0.8: P 0.8: D 0.8. Jan. 1920-May 1921 Designer on Cunard Steamship Terminal, Weehawken, N. J. *TT 1.4: P 1.4: RC 0.7: D 1.4.* Oct. 1921-April 1922 Draftsman and Estimator, Board of Economics and Eng., National Association of Owners of Railroad Securities. *TT 0.6: P 0.6.* May 1922-July 1923 Designer for Designing Engr., N. Y. C. R. R., New York City, on Chicago Terminal R. R. development. *TT 1.2: P 1.2: RC 1.2: D 1.2.* Aug. 1923-June 1925 Asst. Engr. in charge of squad in Drafting and Designing Office of Designing Engr., N. Y. C. R. R., New York City. *TT 1.9: P 1.9: RC 1.9: D 1.9.* July 1925 to date Asst. Valuation Engr. on valuation of Fonda, Johnstown & Gloversville R. R. *TT 1.1: P 1.1: RC 1.1.* *TT 16.7: SP 5: P 11.7: RC 6.4: D 8.1.* Refers to L. A. Jenny, A. MacGlashan, J. E. Porter, F. R. Schmid, Z. H. Sikes, G. P. Stowitts, W. L. Unger, H. T. Welty, J. B. Whipple, W. J. Wilgus.

1060

(10) LEWIS, JAMES SPENCER, Jr., Care, Hardaway Contr. Co., Bainbridge, Ga. (Age 22. Born Goldsboro, N. C.) 1926 B. S. in C. E., Univ. of N. C. *TT 2: SP 2.* Refers to G. M. Braune, B. W. Davis, B. H. Hardaway, Jr., T. F. Hickerson, T. Saville.

1061

(12) LITT, MORRIS ROBERT, 620 First St., Portland, Ore. (Age 27. Born Odessa, Russia.) 1926 B. S. in Civ. Eng., Ore. State Agri. Coll. *TT 2.* Jan. to June 1920 Levelman and Draftsman, and July to Oct. 1920 Dispatcher and Traffic Mgr., South-West R. R. of Russia. *TT 0.7.* June to Sept. 1925 Gravel Inspector, Longview Co., at Central Mixing Plant. June 1926 to date Draftsman, Checker and on small designs for William D. Smith, Cons. Engr., Portland, Ore. *TT 0.2.* *TT 2.9:* Refers to L. E. Brigham, L. A. Perry, S. H. Sims, W. D. Smith.

1062

(1) LOCKWOOD, LOUIS HAMMOND, 303 East Shore Road, Great Neck, N. Y. (Age 37. Born Chicago, Ill.) Licensed Civ. Engr., New York State. 1912 B. S. in Civ. Eng., Marquette Univ., Milwaukee, Wis. *TT 2: SP 2.* June 1912 to Sept. 1913 Rodman, Chairman, Instrumentman and Draftsman, Stone & Webster Eng. Corporation. *TT 1.2: SP 0.4: P 0.8: RC 0.1.* Oct. 1913 to Jan. 1914 Instructor in mathematics, American School of Correspondence. *TT 0.3: P 0.3.* Jan. 1914 to Dec. 1917 Jun. Engr., Bureau of Sewers, Dept. of Public Works, Chicago, on precise leveling, street and sewer grades, some design and construction supervision. *TT 4: P 4: RC 0.1: D 0.1.* Dec. 1917 to Feb. 1919 Asst. Engr., U. S. Reclamation Service, Rio Grande Project, in charge of construction of two 6-ft. reinforced concrete siphons under Rio Grande, design of canals, laterals and structures. *TT 1.2: P 1.2: RC 0.5: D 0.2.* Feb. 1919 to July 1920 with Underwriters Bureau of the Middle and Southern States and June 1921 to Oct. 1922 with Western Factory Insurance Association, as Fire Protection Engr., on surveys and reports on construction, water supplies and sprinkler protection, etc. *TT 2.8: P 2.8: RC 2.* Aug. 1920 to Feb. 1921 Res. Engr. with Hardy S. Ferguson, made two topographical surveys in Canada. *TT 0.5: P 0.5: RC 0.5.* Oct. 1922 to July 1924 in private practice as Civ. Engr. and Surveyor, made surveys in Nassau and Queens Counties, Long Island (1 year); Inspector, concrete road construction with County Engr., Nassau County (1 year). *TT 2: P 2: RC 1.* July 1924 to Oct. 1925 Inspector, New York Reciprocal Underwriters. *TT 1.3: P 1.3: RC 1.* Jan. to Oct. 1925 designing and drafting, Board of Transportation, New York City. *TT 0.8: P 0.8: P 0.4.* Feb. 1926 to date Draftsman, Improvement Div., American Car & Foundry Co. *TT 0.5: SP 0.1: D 0.4.* *TT 16.6: SP 2.5: P 14.1: RC 5.2: D 0.7.* Refers to H. L. Cooper, H. S. Ferguson, J. R. Freeman, A. L. Kurtz, L. M. Lawson, R. Ridgway.

1063

(13) LONGACRE, LEONARD LYLE, Box 24, Big Creek, Cal. (Age 29. Born Kansas City, Mo.) 3 years student in Civ. Eng., Univ. of Utah. *TT 1: SP 1.* June 1917 to Aug. 1918 Rodman, Computer, Draftsman and Instrumentman, Sevier River Land & Water Co. *TT 1.2: SP 1.2.* Aug. to Dec. 1918 at Field Artillery Officers' Training Camp, Camp Taylor, Ky. Dec. 1918 to Oct. 1919 Hydrographer, in charge of water measurements on 60 miles of canal, March to Nov. 1920 Asst. Engr. on operation and maintenance, location of new laterals, design of minor irrigation structures and supervision of construction, and Feb. to Nov. 1921 and Feb. to Nov. 1922 Operating Engr. in charge, and on design for irrigation structures, all for Sevier Canal Co. (40 000-acre project). *TT 3.1: SP 0.8: P 2.3: RC 2: D 0.6.* Dec. 1920 to Feb. 1921 Rodman, Denver & Rio Grande R. R. *TT 0.2: SP 0.2.* Nov. 1921 to Feb. 1922 with L. C. Stubbins, Cons. Engr., Salt Lake City, Utah, as Engr. on preliminary surveys for canal location and gathering data for irrigation investigation. *TT 0.2: P 0.2.* Jan. to Sept. 1923 Engr., R. W. Sparling, Inc., on detail shop drawings for irrigation meters, water recorders, etc., supervision of installation of deep well pumps. *TT 0.7: P 0.7: RC 0.7.* Sept. 1923 to April 1924 in private practice, contracting and building in Los Angeles, Cal. *TT 0.6: P 0.6: RC 0.6.* April 1924 to date Senior Draftsman, Southern

California Edison Co., computations, precise surveying, construction plant design, etc. *TT 2.2: SP 1.2: P 1: D 1. TT 9.2: SP 4.4: P 4.8: RC 3.3: D 1.6.* Refers to R. C. Booth W. L. Chadwick, R. B. Ketchum, E. A. Porter, D. H. Redinger, W. A. Slater, J. C. Ulrich.

1064

(12) **MACNABB, THOMAS CREIGHTON**, Box 92, Revelstoke, B. C., Canada. (Age 50. Born Toronto, Ont., Canada.) 1902 A. B., Manitoba Univ. *TT 2: SP 2.* June 1902 to date with Canadian Pacific Ry. as follows: June 1902 to 1906 Chainman, Stakeman, Rodman, Topographer, Draftsman, Leveler and Transitman; 1906 to 1909 Res. Engr. at Lacombe East (1 year), on precise survey, Lethbridge Viaduct (3 months), Lacombe East and Hardisty Bridge (9 months), and Weyburn Westerly (2 years); 1909 to 1914 Asst. Engr., in charge of Weyburn Westerly (112 miles) and Locating Engr., Klipp to Alderside, Reconnaissance Engr.; 1914 to 1915 Div. Engr. of maintenance, Regina; 1915 to 1916 Dist. Engr., maintenance, Moosejaw, in charge (2 000 miles); since 1917 Div. Supt., Revelstoke Div., mountain territory. *TT 24: SP 4: P 20: RC 15: D 6. TT 26: SP 6: P 20: RC 15: D 6.* Refers to K. Alexander, J. Callaghan, J. M. R. Fairbairn, W. A. James, F. Lee, J. Lundie, J. R. C. Macredie, P. B. Motley, J. G. Sullivan, A. D. Wilder.

1065

(15) **McKEAN, JAMES PERCIVAL**, Box 787, Abilene, Tex. (Age 24. Born Lipscomb, Tex.) 1924 B. S., Rice Inst., Houston, Tex. *TT 2: SP 2.* June to Sept. 1923 Surveyman, U. S. Engr. Dept., at Port Arthur, Tex., acting as Instrumentman and Party Chf. June 1924 to date Asst. City Engr., Abilene, Tex., in charge of surveys and paving, Field Engr. *TT 2: P 2: RC 1. TT 4: SP 2: P 2: RC 1.* Refers to J. H. Rafferty, L. B. Ryon, H. A. Sawyer.

1066

(10) **McNEAL, DONALD HAMLIN**, 2104 Hills Ave., Tampa, Fla. (Age 25. Born Kenton, Ohio.) Licensed Engr., State of Colorado, 1918 to 1922 Student, School of Civ. Eng., Univ. of Colorado (3 years) and Massachusetts Inst. of Technology (1 year). *TT 1.3: SP 1.3.* Summers 1919 to 1922 Transitman, Draftsman and Designer, State Highway Dept., Colorado. *TT 0.4: P 0.4: RC 0.4: D 0.4.* Aug. 1922 to May 1923 Designer and Detailer, Shankland, Ristine & Co., Cons. Engrs., on reinforced concrete and steel buildings. *TT 0.8: P 0.8: RC 0.8: D 0.8.* May 1923 to Sept. 1924 Asst. Engr. in charge of construction, Barahona (Santo Domingo) Sugar Co., on reinforced concrete diversion dam and headgates (750 s. f.), lateral and irrigation structures, railroad supply lines, etc. *TT 1.3: P 1.3: RC 1.3.* Sept. 1924 to Sept. 1925 Supt. of Constr. with Wm. Tamminga, Gen. Contr., on reinforced concrete high school building in Denver (\$1800 000). *TT 1: P 1: RC 1.* Sept. to Nov. 1925 Designer with H. S. Crocker, Denver, Colo., on steel and concrete bridge for Pueblo Conservancy project and City of Denver. *TT 0.2: P 0.2: D 0.2.* Nov. 1925 to March 1926 Supt. of Constr., Hegaman-Harris Co., Davis Island, Fla., on reinforced concrete hotel (not completed). *TT 0.5: P 0.5: RC 0.5.* March 1926 to date Secy. and Treas., Jax, Hauling & Rigging Co., Tampa, Fla., special foundation and steel erection business. *TT 0.5: P 0.5: RC 0.5. TT 6: SP 1.3: P 4.7: RC 4.5: D 1.4.* Refers to I. C. Crawford, H. S. Crocker, J. C. Hays, W. C. Huntington, M. S. Ketchum, J. S. Means.

1067

(4) **MASTRIANI, SAMUEL GABRIEL**, 237 Elm St., Dunmore, Pa. (Age 22. Born Dunmore, Pa.) 1926 C. E., Lehigh Univ. June to Sept. 1925 Transitman, Phoenix Utility Co., in charge of layout of, and construction of foundations for steel-transmission towers. *TT 2: SP 2.* Refers to S. A. Becker, R. J. Fogg, M. O. Fuller, H. G. Payrow, W. L. Wilson.

1068

(10) **METCALF, WILLIAM LOVERING**, P. O. Box 1132, Badin, N. C. (Age 26. Born Detroit, Mich.) 1926 B. S. in C. E., Univ. of Mich. *TT 2: SP 2.* April 1920 to July 1921 designing and constructing, and contracting for, 12-room house, Sept. to Oct. 1923 design and construction of 50-ft. wooden standpipe, Sept. 1924 to Oct. 1925 (vacations) on design and construction of bungalow and garage with private water system and sewage-disposal system. June 1926 to date Draftsman, Tallahassee Power Co., Badin, N. C. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to J. H. Cissel, H. W. King, H. E. Riggs, C. O. Wisler.

1069

(13) **MEYER, NORTON**, 2756 Steiner St., San Francisco, Cal. (Age 23. Born San Francisco, Cal.) 1926 C. E. Stanford Univ. Vacation 1924 structural detailing, Western Iron Works. Vacation 1925 timekeeping and Material Clerk, K. E. Parker Co. *TT 2: SP 2.* Refers to E. B. Bumsted, F. F. Hall, E. J. Schneider, C. H. Snyder, H. C. Vensano.

1070

(6) **MOODIE, ROBERT WARDWELL**, 621 Maplewood Ave., Ambridge, Pa. (Age 21. Born Velardana, Mexico.) 1926 B. S., Cal. Inst. Tech. June to July 1925 with Quinton, Code & Hill, Los Angeles, Cal., computing. *TT 2: SP 2.* Refers to F. J. Converse, R. A. Hill, R. R. Martel, W. W. Michael, F. Thomas.

1071

(1) **MORGAN, ALFRED KENNETH**, 3711 Grand Ave., Astoria, N. Y. (Age 25. Born North Andover, Mass.) 1925 B. S., Mass. Inst. Tech. TT 2: SP 2. June to Oct. 1923 Laborer on concrete bridge, Manchester, N. H., T. Stewart & Sons., Boston, Mass., June to Oct. 1924 Foreman and Engr., on reinforced concrete dam, L. T. Shattuck Constr. Co., Manchester. June 1925 to Aug. 1926 Timekeeper, Engr. and Asst. Supt. Barney-Ahlers Constr. Co., New York City, on reinforced concrete industrial buildings. TT 1.2: P 1.2. TT 3.2: SP 2: P 1.2. Refers to P. A. Shaw, C. M. Spofford.

1072

(2) **NOLEN, JOHN**, 10 Garden Terrace, Cambridge, Mass. (Age 57. Born Philadelphia, Pa.) 1893 Ph. B., Univ. of Pa. 1905 M. A., Harvard Univ. 1913 Sc. D., Hobart Coll. TT 2. 1906 to date in private practice, town and city planning, land subdivision, etc., in all parts of the United States. TT 22. Refers to C. B. Ball, H. Bartholomew, S. Child, E. P. Goodrich, M. Knowles, L. S. Smith, D. L. Turner, G. S. Webster.

1073

(10) **ORSSTEN, THEODORE**, 615 North Twenty-Second St., Birmingham, Ala. (Age 32. Born Bastis, Corsica, France.) 1913 C. E., Ecole des Ponto et Chanssces, Paris France. 1914 Cadet, Artillery Acad. Aug. 1914 to Nov. 1919 with French Army, as Staff Officer, Eng. Corps, 2d Div. on German Front, in Argonne, Sector 33, and St. Mihiel, on field bridge, fortification and location work and map layout, had charge of structures on Salonica-Yevylele main highway, restored by field trestles several bridges in Monastir Sector, reinforced other highway bridges, laid out design and supervised erection of a base warehouse in Trumba, Salonica, etc. TT 5.4: P 5.4: RC 5.4. March 1920 to Sept. 1921 Designer, Joint Comm., Franco-Italian R. R. Connection at Mont-Cenis, designed several gravity and reinforced concrete arches, bridge piers and abutments, laid out sinking of a tunnel alrshaft, etc. TT 1.6: P 1.6: D 1.6. Oct. 1921 to May 1922 Field Engr. in charge of light and power plant construction in Gaferich, Egypt, built a hydraulic structure on an arm of Nile, directed topographic work, completed dam by cofferdam, built machinery-shed, pumping station and switch-house. TT 0.7: P 0.7: RC 0.7. June 1922 to March 1923 Contr., Milan, Italy, on small masonry arch construction on electrified sector of Gallarate, cofferdam construction of abutments for 70-meter (225 ft.) through truss over Naviglio near Monza, built hydraulic retaining wall, etc. TT 0.8: P 0.8. April to Oct. 1923 Field Engr., in charge of sugar grinding mill in Quira de Melena, located general arrangement of old mill, designed new structure and directed re-installation of machinery. TT 0.6: P 0.6: RC 0.6. Oct. 1923 to Feb. 1924 Draftsman, later Designer, Cleveland, Cincinnati, Chicago & St. Louis Ry., designed steel deck, through girders and trusses (40 to 120 ft.) re-rated steel bridges on Cincinnati-Indianapolis Linc, checked and corrected Miami River bridge at Sidney, Ohio, etc. TT 0.4: P 0.4: D 0.4. March to July 1924 Field Engr., Jones & Laughlin Steel Corporation, Woodlawn, Pa., in charge of construction work at South Mills, built acid-unloading station, completed construction of three ice-breakers in Ohio (25 by 25 by 100 ft. conical caisson foundation) directed some structural extension work in South Power House, contemplated reconstruction No. 5 blast and No. 4 open-hearth furnaces. TT 0.4: SP 0.4. July 1924 to March 1925 Designing Engr., Gulf Refining Co., Port Arthur, Tex., laid out design and irrigating piping systems, fuel and power transmission lines and railroad connection and had charge of masonry and structural plant drawings for Type 550 High Pressure Plant; also designed masonry plan of gas compression plant extension and laid out a sprinkler fire-prevention system in paraffine plant; designed new system heating element, furnaces, retorts, heat exchanges, hydraulic accumulators, gas producers, etc. TT 0.7: P 0.7: D 0.7. April-Dec. 1925 Designing Engr., Pennsylvania R. R., Pittsburgh, in charge of masonry bridge work; designed Woodland Ave. Station, Cleveland, Ohio, substructure of Yellow Creek Wye Truss, 250-ft. five-span reinforced concrete girder bridge at Station 288 Bayard Canton Line; laid out grade-separation at Columbus, etc. TT 0.7: P 0.7: D 0.7. Jan. 1926 to date Designing Engr., Tennessee Coal, Iron & R. R. Co., Ensley, Ala., in charge of hydraulic and masonry work; designed several grade crossings and a hydraulic system, laid out plans for new power house. TT 0.5: P 0.5: D 0.5. TT 12.1: SP 0.5: P 11.6: RC 6.8: D 4.1. Refers to A. C. Decker, F. M. Joy, J. F. Leonard, L. J. Riegler, C. J. Rogers.

1074

(8) **PACKARD, ROYAL DAY**, 21' South Euclid Ave., Oak Park, Ill. (Age 24. Born Willimantic, Me.) 1926 S. B., Mass. Inst. Tech. TT 2: SP 2. Refers to C. M. Spofford, R. G. Tyler.

1075

(11) **PALMER, HAROLD KING**, 1741 South Harvard Boulevard, Los Angeles, Cal. (Age 48. Born Berkeley, Cal.) 1898 B. S., and 1903 Ph. D., Univ. of Cal. TT 2: SP 2. May 1909 to June 1922 and April 1923 to Aug. 1925 with U. S. Indian Irrigation Service,

at Myton, Utah, and Los Angeles, Cal., until Dec. 1912 Jun. Engr. in charge of surveys and construction as Res. Engr., Dec. 1912 to Feb. 1920 Asst. Engr., and remainder of time Engr., in charge of construction and maintenance of irrigation systems on all Indian reservations in California. TT 15.6: P 15.6: RC 9.6: D 6. July 1922 to March 1923 Engr. in charge of construction for Tres Ritos Cattle & Land Co., Three Rivers, N. Mex.; design and construction of small hydro-electric power plant and irrigation system. TT 0.7: P 0.7: RC 0.5: D 0.2. Aug. 1925 to date Designer of sewers and on investigations in sewage disposal, Los Angeles County San. Dist. TT 0.9: P 0.9: D 0.9. TT 19.2: SP 2: P 17.2: RC 10.1: D 7.1. Refers to H. R. Bolton, F. D. Bowlius, C. R. Olberg, A. M. Rawn, W. M. Reed.

1076

(11) PARKES, GEOFFREY ALEXANDER, 1725 Virginia Pl., South Pasadena, Cal. (Age 33. Born Pasadena, Cal.) June 1913 to July 1917 Machinist, Salesman, etc. July 1917 to Dec. 1918 Asst. Chemist, City of Pasadena, Operator of sewage-experiment station on activated sludge investigation. TT 1.5: SP 1.5. Jan. 1919 to Nov. 1920 Asst. Engr., State Dept. of Health, Hartford, Conn., inspection of sewage disposal and water supplies, construction and operation of sewage-experiment stations, industrial wastes investigations, stream gauging. TT 1.8: P 1.8: RC 0.5. Nov. 1920 to date Asst. Engr., Sewer Div., Los Angeles, on design of sewer systems, outfalls, treatment works, pumping plants; Prin. Asst. to Chf. Engr. of Sewers. TT 5.7: SP 0.7: P 5: RC 1: D 2. TT 9: SP 2.2: P 6.8: RC 1.5: D 2. Refers to F. A. Batty, H. T. Cory, J. F. Jackson, W. T. Knowlton, S. B. Morris, C. J. Shults, W. D. Smith

1077

(14) PATTERSON, JOSEPH ROBERT, 150 South Gore Ave., Webster Groves, Mo. (Age 23. Born Bloomington, Ind.) 1926 B. S. in C. E., Washington Univ. June to Sept. 1923 Timekeeper, MacDonald Eng. Co., Chicago, Ill., making construction reports, etc., on cement plant. Dec. 1923 to May 1925 (while student) Instrumentman and Inspector with City Engr., University, Mo., on street and sewer layout and construction. June to Sept. 1925 Asst. to Supt. of Constr., Commonwealth Steel Co., Granite City, Ill., on concrete footings, office building, furnaces and steel coal-hopper and conveyor. TT 2: SP 2. Refers to E. O. Sweetser, J. L. Van Ornum.

1078

(8) PERKINSON, PERRY MELVIN, Box No. 161, Staunton, Ill. (Age 31. Born Milton, Ky.) 1921 B. S. C. E., and 1924 C. E., Univ. of Ky. TT 2: SP 2. Aug. to Oct. 1918 and June to Oct. of years 1919 and 1920 Inspector, and June 1921 to July 1922 Res. Engr., Kentucky Highway Dept., on drainage, road, bridge and culvert work, etc. TT 1: P 1: RC 1. July 1922 to date (except Nov. 1923 to April 1924 graduate work at Univ. of Kentucky) with Illinois Div. of Highways, first as Jun. Highway Engr., acting as Res. Engr. on construction of bridges and culverts, grade and reinforced concrete paving, Chf. of survey parties, etc., and after May 1925 Asst. Highway Engr., acting as Res. Engr. in charge of construction of grade and drainage and reinforced concrete paving. TT 4: P 4: RC 2.8: D 0.7. TT 7: SP 2: P 5: RC 3.8: D 0.7. Refers to R. R. Benedict, W. J. Carroll, J. F. Grimes, J. T. Madison, W. A. Newman, D. V. Terrell, C. M. Slaymaker.

1079

(3) PETERSON, WALTER EDWARD, 163 Hudson Ave., Chatham, N. Y. (Age 22. Born Somerville, Mass.) 1926 B. S., Mass. Inst. Tech. TT 2: SP 2. Refers to J. B. Babcock, 3d, H. L. Bowman.

1080

(12) PHIPPS, FRANK WILLIAM, 5035 Seventh Ave. N. E., Seattle, Wash. (Age 32. Born Creston, Iowa.) 1920 B. S. in C. E., Univ. of Wash. TT 2: SP 2. June to Sept. 1914 Chalmers and Rodman on paving, Town of Burlington, Wash. TT 0.2: SP 0.2. Aug. to Nov. 1917 Field Asst., U. S. Geological Survey, Notekeeper, tape lines and aneroid elevations for contours, etc. July to Oct. 1919 Checker, Materialman, etc., Kaiser Paving Co. June 1921 to March 1923 Chalmers, Inspector and Draftsman, King County Engr.'s Office, as Inspector enforced specifications and made monthly estimates. TT 1.8: SP 0.5: P 1.3: RC 1.3. April 1923 Transitman, Clear Lake Lumber Co. TT 0.3: SP 0.3. Aug. 1923 to date Inspector, Eng. Dept., Seattle, Wash., on paving (\$200 000), sewers (\$200 000), including brick and concrete trunk sewers, grading sidewalks and water mains, 8-ft. tunnel for water, gas and telephone lines under Duwamish River, designed concrete and steel bascule bridge. TT 2.8: SP 1.3: P 1.5: RC 1.5. TT 7.1: SP 4.3: P 2.8: RC 2.8. Refers to W. F. Allison, T. R. Beeman, T. H. Carver, I. L. Collier, D. H. Evans, A. W. Munster.

1081

(8) POTGIETER, FRED M, 7689 Rogers Ave., Chicago, Ill. (Age 26. Born Steamboat Rock, Iowa.) 1922 B. E., Coll. of Applied Sci., Univ. of Iowa. TT 2: SP 2. April to Sept. 1918 Foreman in charge of building grain elevator, H. Potgieter Grain Co., Steamboat Rock, Iowa.

Dec. 1919 to June 1922 (spare time and vacations) on surveys and maps of gas and electric distribution systems, and June-Dec. 1922 Asst. Supt. of Constr. (one-fourth of time in complete charge) on hydro-electric plant (750 kw.) with Iowa City (Iowa) Light & Power Co. *TT 0.6: P 0.6: RC 0.6.* Jan. to Sept. 1923 Concrete Designer, Folwell Ahlskog Co., reinforced concrete design of industrial buildings. *TT 0.7: P 0.7: D 0.7.* Sept. 1923-Aug. 1923 Structural and Hydr. Designer, Bylesby Eng. & Management Corporation, on investigations of proposed, and finished design of, hydro-electric plants. *TT 2: P 2: D 2.* Sept. 1925 to date Hydr. Engr., Utilities Power & Light Corporation, in complete charge of all hydro-electric work, investigations, design and construction. *TT 0.8: P 0.8: RC 0.8. TT 6.1: SP 2: P 4.1: RC 1.4: D 2.7.* Refers to B. J. Lambert, J. W. Link, F. A. Nagler, T. Pettersen, H. G. Roby.

1082

(15) PROTHEROE, MAURICE RAYMOND, Box 94, Aransas Pass, Tex. (Age 21. Born Eldora, Iowa.) 1926 B. S. in C. E., Iowa State Coll. June 1926 to date Inspector, U. S. Engr. Service, Galveston Dist. *TT 2: SP 2.* Refers to T. R. Agg, B. Bird, R. A. Caughey, W. L. Foster, A. H. Fuller, F. Kerekes.

1083

(10) QUINN, FRANK TAYLOR, Jr., 394 South Orleans, Memphis, Tenn. (Age 21. Born Kansas City, Mo.) 1926 B. S. in C. E., Univ. of Kans.; at present with Layne & Bowler Mfg. Co., drafting, etc, Memphis, Tenn. *TT 2: SP 2.* Refers to W. C. McNown, H. A. Rice.

1084

(10) REAGAN, GEORGE WILLIAM, 2106 Washington Ave., Knoxville, Tenn. (Age 27. Born Knoxville, Tenn.) 1920 B. S., Univ. of Tenn. *TT 2: SP 2.* June 1920 to March 1921 Asst. Chf. Operator, Aluminum Co. of America, plant operation and research. *TT 0.8: SP 0.4: P 0.4: RC 0.4.* March 1921 to June 1923 Office Engr., City Eng. Dept., Knoxville, drafting, design and supervision. *TT 2.2: P 2.2: RC 1.2: D 1.* June 1923 to date Engineer and Estimator, on estimating, supervision and design, until July 1924 with J. M. Dunn & Son, Bldg. Contrs., then with Knoxville Roofing & Paving Co., Contrs., and since Feb. 1925 with V. L. Nicholson Co. *TT 3.2: P 3.2: RC 2.2: D 0.9. TT 8.2: SP 2.4: P 5.8: RC 3.8: D 1.9.* Refers to A. L. Dabney, N. W. Dougherty, C. J. Murray, Jr., J. A. Steel, E. B. Wilkinson.

1085

(14) REMLEY, NORMAN WILLIAMS, 321 Capitol Bldg., Jefferson City, Mo. (Age 22. Born Orrick, Mo.) 1926 B. S. in Eng., Univ. of Mo. *TT 2: SP 2.* June to Sept. 1925 Asst. Engr., Northern Paper Mills, Green Bay, Wis., acting as Transitman. June 1926 to date Draftsman, Bureau of Bridges, Missouri State Highway Dept., assembling, drawing, tracing and estimating. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to H. W. Gochnauer, A. L. Hyde, H. A. LaRue, E. J. McCaustland, H. K. Rubey.

1086

(9) RENN, RAYMOND WILLIAM, 2158 Manchester Ave., Cincinnati, Ohio. (Age 31. Born New Albany, Ind.) Graduating student awarded Cincinnati Section Prize. 1922 to date student, Coll. of Eng., Univ. of Cincinnati (C. E. degree to be conferred in June, 1927). *TT 2: SP 2.* Aug. 1917 to Feb. 1919 with U. S. Army, until Jan. 1918 as non-commissioned officer, 1st Ind. Cavalry and 152d Infantry, Jan.-April 1918 at Third Officers' Training Camp, Leon Springs, Tex., May-Aug. 1918 2d Lieut., 161st Infantry, and Sept. 1918-Feb. 1919 1st Lieut., 68th Infantry. *TT 1.5: SP 1.5: RC 0.7.* 1920 to 1922, and 1924 to 1925 (co-operative work) Asst., Eng. Corps, Pennsylvania R. R., at Louisville, Ky., and Cincinnati, Ohio, drafting, surveying, construction and maintenance. 1922 to 1924 (co-operative work) Draftsman, Comms. of Sewerage, Louisville. *TT 2.6: P 2.6: RC 0.6. TT 6.1: SP 3.5: P 2.6: RC 1.3.* Refers to E. D. Gilman, R. L. Langenheim, H. B. Luther, C. N. Miller, H. Schneider.

1087

(1) ROBICHAU, HAROLD VINCENT, 17 Gramercy Park, New York City. (Age 23. Born Beverly, Mass.) 1925 B. S., Mass. Inst. Tech. *TT 2: SP 2.* June 1925 to date Draftsman, Stone & Webster, Inc., Boston, Mass. *TT 1.1: SP 1.1. TT 3.1: SP 3.1.* Refers to J. B. Babcock, 3d, H. L. Bowman, C. B. Breed, R. W. Burpee, A. Meyer, C. M. Spofford.

1088

(1) ROBINSON, JOHN EDWARD, 954 East 32d St., Brooklyn, N. Y. (Age 24. Born Brooklyn, N. Y.) 1926 B. S. in C. E., Univ. of Pa. *TT 2: SP 2.* June 1918 to Sept. 1922 and 1922 to 1926 (while student) Draftsman, American Bridge Co., New York City, structural steel design drawings and estimating. Sept. 1922 to June 1926 Asst. in Civ. Eng., Dept. of Civ. Eng., Towne Scientific School, Univ. of Pennsylvania, drafting, assisting in testing laboratories, etc. *TT 4.2: SP 4.2. TT 6.2: SP 6.2.* Refers to H. C. Berry, J. H. Edwards, W. G. Grove, F. C. Moore, R. W. Nickerson, J. E. Wadsworth, F. P. Witmer.

1089

(15) ROLLINS, JOHN MARTIN, Eagle Hotel, Eagle Pass, Tex. (Age 20. Born Houston, Tex.) 1926 B. S. in C. E., Agri. and Mech. Coll. of Tex. July to Sept. 1925 Instrumentman with E. C. Crocker. July 1926 to date Instrumentman with Walter & Arneson, Engrs., San Antonio, Tex. TT 2: SP 2. Refers to E. P. Arneson, J. T. L. McNew, J. J. Richey, A. P. Rollins, C. W. Rollins, C. A. Thanheiser.

1090

(14) SCHULTES, ARMIN MEYER, 3228 South Jefferson Ave., St. Louis, Mo. (Age 22. Born St. Louis, Mo.) 1926 B. S., Univ. of Ill. TT 2: SP 2. Nov. 1925 to June 1926 (while student) with City Engr., Urbana, Ill., surveying and subdivision work. June 1926 to date Jun. Civ. Engr., Dept. of Sewers and Paying, St. Louis, Mo., on River des Peres sewer and drainage works, surveying, inspecting, etc. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to A. G. Anderson, M. L. Enger, T. D. Mylrea, G. W. Pickels, T. C. Shedd, C. C. Williams.

1091

(1) SEAMAN, WILLIAM LAURIE, 79 Pitt St., Sydney, New South Wales, Australia. (Age 32. Born Glen Cove, N. Y.) 1915 A. B. in Civ. Eng., Swarthmore (Pa.) Coll. TT 2: SP 2. June 1915 to Sept. 1917 Timekeeper, Material Clerk, Piling Inspector, Steel Foreman and Asst. Supt., Turner Constr. Co., New York City. TT 2.2: SP 2.2. Sept. 1917 to Dec. 1918 with Air Service, U. S. Army, first as Private, Flying Cadet, then 2d Lieut., Sig. R. C., acted as Flying Instructor and Flight Tester, Carlstrom and Dorr Fields, Arcadia, Fla. TT 1.2: SP 1.2. March to Aug. 1919 Sales Engr., Turner Constr. Co., Boston, Mass. TT 0.3: SP 0.3. Aug. 1919 to March 1920 Transitman, Draftsman and Chf. of small party, with Wm. H. Seaman, C. E., Glen Cove, N. Y. TT 0.7: SP 0.4: P 0.3. March 1920 to July 1921 Asst. to Gen. Supt., Turner Constr. Co., Philadelphia, Pa., on various contracts. TT 1.3: P 1.3: RC 1.1. Sept. 1921 to March 1922 Div. Commercial Survey Engr., Bell Telephone Co. of Pennsylvania, directing and supervising commercial survey of Philadelphia. TT 0.5: P 0.5: RC 0.5. April 1922 to Sept. 1923 making world tour. Sept. 1923 to May 1925 part of time with Wm. H. Seaman as Asst. Director; also Treasurer of Highland Motor Co., Inc., Glen Cove, and traveling. TT 0.3: P 0.3: RC 0.3. May 1925 to date Controlling Officer acting as Head of Motor Accident, Public Risk and Burglary Dept., with Ernest W. Bell, Loss Assessor, Sydney, New South Wales, Australia, acting in advisory capacity for building renovations, etc. TT 1.1: P 1.1: RC 1.1. TT 9.6: SP 6.1: P 3.5: RC 3. Refers to E. M. Bassett, E. R. Bear, D. H. Dixon, E. J. Moore, J. P. H. Perry, H. B. Seaman, W. H. Seaman, A. O. Smith, T. A. Smith, E. B. Temple, H. C. Turner, J. C. White.

1092

(10) SENSING, WILBUR CARSON, 108 Fatherland St., Nashville, Tenn. (Age 25. Born Dickson, Tenn.) 1923 B. E., Vanderbilt Univ. TT 2: SP 2. Nov. 1923 to March 1925 Rodman, Chicago, Burlington & Quincy R. R. TT 1.3: SP 1.3. March 1925 to date Estimator and Designer, Wilson-Weesner-Wilkinson Co., Nashville, Tenn. TT 1.5: P 1.5. TT 4.8: SP 4.8. Refers to H. A. Burr, L. R. Currey, Jr., J. B. Mullins, E. B. Wilkinson, C. B. Wilson.

1093

(8) SHEPPARD, KENNETH ANTHONY, Dam 52, Ohio River, Brookport, Ill. (Age 20. Born Bridgeton, N. J.) 1926 C. E., Lehigh Univ. June to Sept. 1923 Asst. to Engr. on location of railroad spur, and June to Sept. 1925 Foreman in Constr. Dept., Illinois Glass Co., Bridgeton, N. J.; work included field surveys and computations, and small construction jobs. July 1926 to date Surveyman, U. S. War Dept., Dam 52, Ohio River, inspecting and testing materials. TT 2: SP 2. Refers to S. A. Becker, R. J. Fogg, M. O. Fuller, W. M. Hall, H. G. Payrow, W. L. Wilson.

1094

(10) SIBBERT, EDWARD FREDERICK 1139 Lincoln Road, Miami Beach, Fla. (Age 27. Born Brooklyn, N. Y.) Registered Engr., State of New York. Registered Archt., State of Florida. 1919 Archt. Engr., Pratt Institute, 2 years post-graduate work in engineering architecture, Cornell Univ. TT 0.6: SP 0.6. June to Sept. 1918 Draftsman with Arne Dehl, Archt., New York City, on small house and country estate design. TT 0.3: SP 0.3. June to Sept. 1919 Draftsman, The Turner Constr. Co., New York City, working drawings and general layouts for concrete commercial buildings, etc. TT 0.3: SP 0.3. June to Sept. 1920 Draftsman with George Hardy, Cons. Engr., New York City, on working drawings, layouts and some design of reinforced concrete and pipe-layout for large paper mills. TT 0.3: SP 0.3. June 1921 to Jan. 1924 Engr. and Gen. Supt., Heesch & Sibbert, Inc., Gen. Contrs., New York City, two years as partner in charge of construction work and design of heavy alterations, wrote specifications and acted as Designer and Supervisor. TT 2.5: P 2.5: RC 2.5. Jan. to June 1924 Designer with E. A. Evans, Archt. for W. T. Grant Co., New York City, on structural design for department store (\$500 000) at Hartford, Conn., acted as Gen. Superv. TT 0.5: P 0.5: D 0.5. July 1924 to Jan. 1926 Head Draftsman and Designer,

Klehnell & Elliott, Archts., Miami, Fla., charge of design and engineering on houses, churches, factories, schools, office buildings (\$20 000 to \$1 000 000). *TT 1.5: P 1.5: D 1.5.* Jan. 1926 to date member of firm, Pancoast & Sibbert, Archts. and Engrs., Miami Beach, Fla., in charge of design and engineering on residences, factories, hotels, apartment houses (\$20 000 to \$100 000) and hotel for Coconut Grove (\$3 000 000, under construction). *TT 0.5: P 0.5: D 0.5.* *TT 6.4: SP 1.4: P 5: RC 2.5: D 2.5.* Refers to C. F. McKenzie, H. P. Pope, F. O. Price, A. Rose, E. A. Stuhman.

1095

(7) SMEAD, RALPH AMSDEN, 121 Connecticut Ave., Highland Park, Mich. (Age 42. Born Greenfield, Mass.) 1907 S. B. Dartmouth Coll. 1910 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Feb. to July 1904, July to Aug. of years 1905 and 1906, and July 1907 to July 1908 Rodman, Draftsman, Instrumentman and Blueprinter, Clapp & Abercrombie Co., Civ. Engrs. *TT 1.6: SP 1.6.* July 1910 to July 1911 Draftsman, Instrumentman and Photographer with John R. Freeman, Cons. Engr., grade reduction viaduct, dam designs. *TT 1: SP 0.7: P 0.3: RC 0.3.* July 1911 to Sept. 1912 Jun. Engr., U. S. Geological Survey, precipitation and stream-flow investigations in White Mountains, N. H., including construction of stream-gauging stations, current meter work, installation of precipitation gauges, etc. *TT 1.2: SP 0.5: P 0.7: RC 0.5.* Sept. 1912 to July 1920 and Feb. 1921 to March 1922 Structural Engr. with Ford, Buck & Sheldon, Inc., on design, and Supt. (Inspector and Res. Engr.) on construction of factory buildings, warehouses, water-works, small bridges, etc. *TT 8.9: SP 0.5: P 8.4: RC 4: D 2.* July 1920 to Feb. 1921 Structural Engr., Henry Souther Eng. Co., being Res. Engr. superintending and inspecting 5-story reinforced concrete factory building for North East Elec. Co., Rochester, N. Y. *TT 0.6: P 0.6: RC 0.6.* June to Oct. 1923 Structural Engr. with Smith, Hinchman & Grylls, on design of office building and steam electric power plant (structures). *TT 0.4: P 0.4.* Nov. 1923 to date Structural Engr. with Albert Kahn, Inc., on design of office, club and manufacturing buildings, warehouses, apartment houses, craneways, conveyors, concrete tunnel (steel and concrete), 3 months in Structural Checking Dept. *TT 2.7: P 2.7: RC 0.9: D 0.9.* *TT 18.4: SP 5.3: P 13.1: RC 6.3: D 2.9.* Refers to C. B. Breed, H. R. Buck, J. A. Dormer, J. R. Freeman, J. C. Hoyt, J. T. N. Hoyt, D. A. Molitor, T. D. Mylrea, E. M. Walker.

1096

(4) SMITH, PAUL JAMES, 1516 Erie Ave., Philadelphia, Pa. Graduating student awarded Philadelphia Section prize of Society Junior membership. (Age 22. Born Philadelphia, Pa.) 1926 B. S. in C. E., Univ. of Pa. *TT 2: SP 2.* June to Oct. of years 1923 and 1924 Detailer and Designer, Baldwin Locomotive Works, Philadelphia, Pa. June to Oct. 1925 and June 1926 to date Senior Eng. Draftsman, Hydrographic Office, Navy Dept., Washington, D. C. *TT 0.2: P 0.2.* *TT 2.2: SP 2: P 0.2.* Refers to H. C. Berry, W. H. Chorlton, E. T. Grandlienard, W. S. Pardoe, E. G. Perrot, G. H. Shaw, F. P. Witmer.

1097

(1) SPENCER, LOUIS CAPELL, 81 Waller Ave., White Plains, N. Y. (Age 26. Born Grand Gorge, N. Y.) 1922 B. S. in C. E., N. Y. Univ. *TT 2: SP 2.* June to Oct. of years 1920 and 1921 Rodman acting as Instrumentman, and Inspector on concrete, Board of Water Supply, New York City. Aug. 1922 to March 1923 Jun. Engr., New York and New Jersey Bridge & Tunnel Comm., New York City, acting as Instrumentman-Inspector, vehicular tunnel. *TT 0.7: P 0.7.* March to Aug. 1923 Inspector, Passaic Valley Sewerage Comm., Newark, N. J., on compressed air tunnel construction. *TT 0.5: P 0.5.* Aug. 1923 to Aug. 1924 Jun. Engr., War Dept., U. S. Engrs., Chattanooga, Tenn., in charge of field survey of Unit No. 4. *TT 1: P 1: RC 1.* Aug. to Nov. 1924 Constr. Engr., Lyon Constr. Co., Ogden, Utah, in charge of concrete construction on highway work. *TT 0.3: P 0.3: RC 0.3.* Dec. 1924 to April 1925 Draftsman and Instrumentman, Associated Gas & Elec. Corporation, Oneonta, N. Y. *TT 0.4: P 0.4.* April to Sept. 1925 Engr., Kensico Cemetery, Valhalla, N. Y., in charge of engineering construction. *TT 0.5: P 0.5: RC 0.5.* Oct. 1925 to date Sales Engr., Armstrong Cork & Insulation Co., New York City, in charge of construction of cool-storage room, fur vaults, meat boxes, etc. *TT 0.8: P 0.8: RC 0.8.* *TT 6.2: SP 2: P 4.2: RC 2.6.* Refers to R. M. Beck, S. K. Clapp, A. Haring, E. G. Hooper, L. E. Robbe, C. H. Snow, D. S. Trowbridge, A. S. Tuttle.

1098

(13) SQUIRES, JOHN HAMILTON, Apartado 97, Monterey, N. L., Mexico. Graduating student awarded San Francisco Section prize of Society Junior membership. (Age 23. Born near Vista, Cal.) 1926 A. B. in C. E., Stanford Univ. *TT 2: SP 2.* July to Sept. 1924 Rodman and Notekeeper, U. S. Coast and Geodetic Survey, precise level work in southern California. May to Oct. 1925 Field Asst. and Concrete Inspector for Shirley Baker, Cons. Engr., on Stanford Stadium additions. At present with Jas. F. Martin & Co., Monterey, Mex. *TT 2: SP 2.* Refers to S. Baker, D. W. Ormsbee, L. B. Reynolds, E. C. Thomas, C. B. Wing.

1099

- (8) **STANLEY, CLAUDE MAXWELL, Jr.**, 1934 Orrington Ave., Evanston, Ill. (Age 22. Born Corning, Iowa.) 1926 B. S. in Gen. Eng., State Univ. of Iowa. *TT 2: SP 2.* June 1926 to date Draftsman, Byllesby Eng. & Management Corporation, Chicago, Ill. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to A. H. Holt, R. B. Kittredge, B. J. Lambert, F. A. Nagler, S. M. Woodward.

1100

- (1) **STAYNER, DUDLEY SUTHERLAND**, 160 West Eighty-Fourth St., New York City. (Age 38. Born Toronto, Ont., Canada.) 1910 B. A. Sc., and 1915 C. E., Univ. of Toronto. *TT 2: SP 2.* May 1910 to July 1911 with Bridge and Dock Dept., Toronto, Ont., Canada, on drafting and design, steel and concrete bridges, viaducts and docks and supervision of construction of docks. *TT 1.2: SP 0.8: P 0.4: RC 0.2: D 0.2.* July 1911 to Feb. 1916 with Toronto Harbor Comm., on design and construction of harbor improvements, including docks, seawalls, reclamation, ship channels, piling, etc. *TT 4.7: SP 1: P 3.7: RC 3: D 0.7.* March 1916 to July 1920 with U. S. Army and on private work. Aug. 1920 to Jan. 1921 with James, Proctor & Redfern, Cons. Engrs., Toronto, on design and construction of municipal sewerage system, water-works, paving, etc. *TT 0.5: P 0.5: RC 0.4: D 0.1.* Feb. 1921 to Oct. 1925 Asst. Chf. Engr., Toronto & York Roads Comms., in charge of county system of construction and maintenance of roads, bridges, etc. *TT 4.7: P. 4.7: RC 4: D 0.7. TT 13.1: SP 3.8: P 9.3: RC 7.7: D 1.7.* Refers to A. H. Harkness, E. A. James, L. M. Jones, C. H. Rust, C. R. Young.

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- (12) **STOCKER, DWIGHT LATHROP**, 732 Hancock St., Portland, Ore. (Age 22. Born Carbondale, Pa.) 1926 B. S., Sheffield Sci. School. *TT 2: SP 2.* Refers to C. T. Bishop, G. C. Mason, J. C. Tracy.

1102

- (15) **STOLDT, CLARENCE ALFRED**, Asst. City Engr., Blackwell, Okla. (Age 22. Born Portales, N. Mex.) 1926 B. S., Okla. Univ. *TT 2: SP 2.* Refers to F. M. Veatch, N. T. Veatch, Jr.

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- (8) **STRUCK, HENRY EDWARD**, 618 North Prairie St., Jacksonville, Ill. (Age 23. Born Jacksonville, Ill.) 1926 B. S. C. E., Univ. of Ill. *TT 2: SP 2.* Refers to R. R. Benedict, M. L. Enger, G. W. Pickels, J. Vawter, C. C. Wiley, C. C. Williams.

1104

- (12) **SUCKOW, VERNON CHRISTOPHER**, 436 Central Bldg., Seattle, Wash. (Age 52. Born Jamesville, Wis.) 1893 to 1894 Draftsman and Inspector with Oscar Sonne, Cons. Engr., Milwaukee, Wis. *TT 0.1: P 0.1.* 1894 to 1895 Estimator, Wisconsin Bridge and Iron Works, Milwaukee. *TT 1.2: P 1.2.* 1895 to 1897 Draftsman, Milwaukee Bridge Co. *TT 2: P 2.* 1897 to 1899 Structural Designer, Min. Dept., Edw. P. Allis Co. *TT 2: P 2: RC 2.* 1899 to 1901 with Ralph Modjeski, Cons. Engr., in charge of inspection. *TT 2: P 2: RC 2.* 1901 to 1903 Engr., Structural Dept., Mead-Morrisson Co., Chicago, Ill. *TT 2: P 2: RC 2.* 1903 to 1907 with Ritter and Mott, Cons. Engrs., Chicago, in office and field. *TT 4: P 4: RC 4.* 1907 to date Cons. Engr., Seattle, Wash., and Vancouver, B. C., in structural designing and supervision, including hospitals, apartments, various buildings for Univ. of Washington, bank and office buildings, garage, etc. (\$95 000 to \$750 000) in Seattle, Wash., and Vancouver, B. C., Civic Auditorium, Portland, Ore. (\$600 000), etc.; also science, gymnasium and dormitory buildings and a library for Univ. of British Columbia (not yet completed); 1917 to 1920 also Capt. of Engrs., U. S. Army. *TT 19: P 19: RC 19. TT 32.3: P 32.3: RC 29.* Refers to T. R. Beeman, H. L. Bushnell, F. H. Fowler, E. B. Hussey, R. H. Ober, F. F. Sinks, E. L. Strandberg.

1105

- (1) **TAKAHASHI, SUEJIRO**, 1 Madison Ave., New York City. (Age 35. Born Kioto, Japan.) 1917 M. S. in Civ. Eng., Kioto Imperial Univ. *TT 2: SP 2.* July 1917 to June 1919 Asst. to Bridge Designer, and June 1919 to Sept. 1925 Ry. Bridge Designer, steel and concrete railway bridges, Japanese Govt. Rys., Tokio, Japan. Oct. 1925 to date studying American and European railway bridge work. *TT 8.3: SP 2: P 6.3: RC 6.3: D 6.3. TT 10.3: SP 4: P 6.3: RC 6.3: D 6.3.* Refers to W. H. Burr, C. G. Cappel, A. H. Fuller, F. E. Turneaure, J. A. L. Waddell.

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- (11) **TAYLOR, CHARLES BAGWELL**, 991 North Orange Grove Ave., Hollywood, Cal. (Age 33. Born Manistee, Mich.) 1918 B. S. in Civ. Eng., Univ. of Ill. *TT 2: SP 2.* Sept. 1911 to June 1913 (part of time) Draftsman, Manistee & Northeastern R. R. *TT 0.4: SP 0.4.* Dec. 1915 to March 1916 Rodman, Norfolk & Western R. R. *TT 0.2: SP 0.2.* Oct. to Dec. 1915, Jan. to April 1918, and Jan. 1919 Test Asst., A. S. C. E. Committee on Track Stresses,

Urbana, Ill., conducting tests and platting results. April to Dec. 1918 in Air Service, U. S. Army. *TT 0.7: SP 0.7.* March to July 1916 Draftsman, Manistee (Mich.) Iron Works, centrifugal pump manufacture. *TT 0.4: SP 0.4.* Feb. 1919 to March 1920 Instrumentman, Draftsman and Inspector, Illinois State Highway Dept., East St. Louis, Ill., surveys, plans and construction of roads. *TT 1.1: SP 1.1: D 0.5.* March 1920 to July 1924 with Sinclair Refining Co., until Sept. 1922 in Operating Dept., then Asst. to Combustion Engr. on fuel tests, operation of power plants, maintenance of equipment, and Feb. to July 1923 Asst. to Res. Engr. in charge of surveys, inspection and engineering on plant maintenance and construction of addition (\$10 000 000) at East Chicago, Ind., and after Aug. 1923 Office Engr., at Chicago, Ill., being Asst. to Chf. Engr. on construction (\$40 000 000) and Acting Maintenance Engr. *TT 2: P 2: RC 2.* Dec. 1924 to Feb. 1925 Designer, Bridge Dept., Chicago, on bascule bridge foundation. *TT 0.3: P 0.3: RC 0.3: D 0.3.* June 1925 to date Chf. Draftsman, Los Angeles County Sanitation Dist., Los Angeles, Cal., in charge of designs and drafting for construction of trunk sewers (150 miles). *TT 1.1: P 1.1: RC 1: D 1.1.* *TT 8.2: SP 4.8: P 3.4: RC 3.3: D 1.9.* Refers to H. R. Bolton, F. Bowlus, W. F. Foster, J. S. Hess, A. M. Rawn, F. T. Sheets, A. N. Talbot, A. K. Warren, K. K. Wyatt.

1107

(1) **TEAS, HOWARD JONES**, 73 Steven St., Freeport, N. Y. (Age 32. Born DeFuniak Springs, Fla.) 1917 B. S. in C. E., and 1924 C. E., Mo. School of Mines. *TT 2: SP 2.* Oct. 1917 to Oct. 1919 with 23d, 27th and 28th Engrs., U. S. Army, 1½ years overseas, topography and map computations. *TT 1.5: SP 1.5.* May to Oct. 1917 Jun. Engr., acting as Inspector and Res. Engr., Oct. 1919 to April 1921 Jun. and Asst. Engr., acting as Res. Engr. and Sept. 1922 to Jan. 1923 and April to Nov. 1924 Res. Engr., Illinois Div. of Highways, on earth and concrete road and concrete bridge construction, plans and estimates. *TT 3: P 3: RC 2.2: D 0.3.* April 1921 to Aug. 1922 Coordinator, U. S. Veterans Bureau supervising training, progress, etc., in topography and highway engineering at Missouri School of Mines. Jan. 1923 to Jan. 1924 Project Engr., Missouri Highway Commission, in charge of earth and gravel road construction (12 miles). *TT 1: P 1: RC 1.* Jan. to April 1924 Salesman, Kardex Sales Co., St. Louis. Nov. 1924 to date Field Engr., Portland Cement Association, promotion and inspection in eastern Missouri. *TT 1.7: P 1.7: RC 1.7.* *TT 9.1: SP 3.5: P 5.6: RC 4.9. D 0.3.* Refers to J. B. Butler, H. E. Frech, E. G. Harris, B. C. McCurdy, H. P. Mobberly, C. M. Slaymaker, E. U. Stevenson.

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(11) **THOMPSON, DAVID**, 14837 Friar St., Van Nuys, Cal. (Age 39. Born Philadelphia, Pa.) 1908 B. S. in C. E., Univ. of Pa. *TT 2: SP 2.* June 1908 to March 1910 Draftsman, Grade Crossing Div., Bureau of Surveys, Philadelphia, Pa., track elevation, etc. *TT 1.8: SP 1.8.* March to April 1910 Rodman, Pennsylvania R. R. *TT 0.1: SP 0.1.* April 1910 to Oct. 1912 Draftsman and Inspector, Isthmian Canal Comm., Culebra, Canal Zone, Panama, dredging, division of lock design, and machinery equipment. *TT 2.5: SP 1: P 1.5: RC 1.5: D 1.* March to Sept. 1914 inspection and construction, Ry. & Stationary Refrigerating Co. (The Clothel Co.), New York City, installation of ice-making equipment and refrigeration. *TT 0.5: P 0.5: RC 0.5.* April to Oct. 1915 steel inspection, under Mr. Lyddon of Inspection Office, English Army, Pittsburgh, Pa. *TT 0.5: P 0.5: RC 0.5.* Jan. to March 1916 with R. H. Beaumont Co., Philadelphia, on design of elevating and conveying equipment. *TT 0.3: P 0.3: RC 0.3: D 0.3.* March 1916 to July 1917 on design, Chf. Engr.'s office and Asst. Engr.'s office, P. R. R., Philadelphia, track work. *TT 1.3: P 1.3: RC 1.3: D 1.3.* Aug. 1917 to Sept. 1918 with Bureau of Yards and Docks, U. S. Navy Dept., Washington, D. C., on construction of armor plate and ordnance and projectile plants, Charlestown, W. Va. and at Navy Yard, Philadelphia. *TT 1.1: P 1.1: RC 1.1.* Sept. to Dec. 1918 with Emergency Fleet Corporation, U. S. Shipping Board, Dept. of Shipyard Plants, Philadelphia, on design of water-pipe lines for fire protection. *TT 0.3: P 0.3: RC 0.3: D 0.3.* Jan. to April 1925 engineering work, U. S. Engrs., Wilmington (Del.) office, dredging. *TT 0.3: P 0.3 RC 0.3: D 0.3.* May 1925 to date with Eng. Dept., Los Angeles, Cal., on street improvements, paving, etc. Since 1912 (at intervals) also on private work. *TT 1.2: P 1.2: RC 1.2: D 1.2.* *TT 11.9: SP 4.9: P 7: RC 7: D 4.4.* Refers to H. F. Flynn, G. W. Goethals, H. F. Hodges, H. C. Ives, H. H. Rousseau, S. A. Sloan, G. S. Webster.

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(1) **URIBE, ARTURO ARCILA**, Ingeniero Jefe del Ferrocarril del Pacifico, Call, Colombia. (Age 37. Born Medellin, Colombia.) 1911 Ingeniero Civil, Facultad de Matematicas e Ingenieria de la Universidad Nacional de Bogota, Colombia. *TT 2: SP 2.* Jan. 1912 to Nov. 1918 with Compania del F. C. del Pacifico, until July 1914 as Draftsman, and Asst. Engr. on surveys for water supply for Call, and on construction and reconstruction of railway; after July 1914 Locating Engr. and Chf. of Party on preliminary surveys (about 400 KM.) and location along Cauca Valley from Cartago to Popayan on Santander. *TT 6.9:*

P 6.9: RC 4.3. Nov. 1918 to March 1919 Draftsman, Designing Commission of Pier for Port of Buenaventura, Departamento del Valle del Cauca (plans and design made in Panama.) TT 0.3: P 0.3. March to May 1919 Mun. Engr., City of Cali. TT 0.2: P 0.2: RC 0.2. July to Dec. 1919 Secy., Commission Tecnica del Ferrocarril de Uraba at Medellin, under Chf. Engr., Ferrocarril de Antioquia. TT 0.4: P 0.4. Jan. to March 1920 Locating Engr., Ferrocarril del Pacifico on final location of line to Popayan. TT 0.3: P 0.3: RC 0.3. June 1920 to June 1922 Chf. of Party on preliminary surveys for railway from Ibague to Zarzal, across Central Cordillera of Andes, connecting Tolima and Pacific Rys. TT 2: P 2: RC 2. June to Dec. 1922 Locating Engr., and March 1923 to date Chf. Engr., Ferrocarril del Pacifico and Mgr. (gerente) in charge during absence of Manager. TT 3.6: P 3.6: RC 3.6. TT 15.7: SP 2: P 13.7: RC 10.4. Refers to J. N. H. Cornell, G. Uribe, H., R. K. West. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1110

(1) WAGSTAFF, JOHN PERRY, 319 West 89th St., New York City. (Age 26. Born Abilene, Tex.) 1921 B. S. in C. E., Agri. and Mech. Coll. of Tex. 1923 M. S. in C. E., Univ. of Cal. TT 2: SP 2. June 1921 to July 1922 Topographer and Levelman, with Keilhauer & Rodezno, on railroad surveys, instrument work and field drafting. TT 1.1: P 1.1. July 1923 to Jan. 1924 Fitter Helper, American Bridge Co., Gary, Ind., assembling members for buildings, bridges, turntables, tanks, etc. TT 0.6: SP 0.6. Jan. 1924 to Jan. 1925 Detailer, Geo. A. Just Co., Long Island City, N. Y., detail drawing for steel buildings and theatres. TT 1: P 1. Jan. 1925 to July 1926 with Viele, Blackwell & Buck, New York City, 5 months as Survey Draftsman, and remainder of time Asst. Engr. on construction of steel tower transmission line. TT 1.5: P 1.5: RC 1.1. July 1926 to date Detailer, Levering & Garrigues Co., New York City, detail drawing for steel buildings. TT 0.1: P 0.1. TT 7.1: SP 2.6: P 4.5: RC 1.1. Refers to L. J. Bevan, F. O. Blackwell, C. Derleth, Jr., B. A. Etcheverry, J. C. Nagle, J. J. Richey, L. F. Whitbeck.

1111

(1) WEIL, CONRAD, Jr., 12 Kirohheimer Str., Degerloch ble Stuttgart, Wurttemberg, Germany. (Age 24. Born San Francisco, Cal.) 1926 A. B., Stanford Univ. TT 2: SP 2. June 1922 to Oct. 1923 and June to Oct. 1924 with Healy-Tibbitts Constr. Co., San Francisco, Cal., as follows: June to Dec. 1922 Timekeeper and Camp Boss, highway work, cost accounting, etc.; Dec. 1922 to May 1923 Asst. to Engr. on repair of Yosemite Valley R. R. bridge, in charge of supplies, payrolls and cost accounts; May to Oct. 1923 Asst. Supt. in quarry, in charge of payrolls, cost accounts, materials, etc.; June to Oct. 1924 Asst. to Engr., bay crossing of Hetch-Hetchy, field drafting and cost accounts; July to Oct. 1925 Engr. with Fred L. Johnston, C. E., in charge of reconstruction of small garage in Santa Barbara earthquake zone, surveying and simple concrete design. TT 1.2: SP 1.2. TT 3.2: SP 3.2. Refers to R. F. Brown, J. C. L. Fish, C. D. Marx, C. Moser, L. B. Reynolds, E. C. Thomas, C. B. Wing.

1112

(14) WELLS, GEORGE EUGENE, Jr., 484 Lake Ave., St. Louis, Mo. (Age 21. Born St. Louis, Mo.) 1926 B. S., Mass. Inst. Tech. TT 2: SP 2. Refers to J. B. Babcock, 3d, H. L. Bowman, C. B. Breed, C. M. Spofford, C. H. Sutherland.

1113

(8) WHITE, HERBERT LeROY, 512 East Springfield Ave., Champaign, Ill. (Age 25. Born Little Rock, Ark.) 1926 B. S., Univ. of Ill. July to Sept. 1923 and June to Sept. 1924 Inspector of pavement, for Dickinson & Watkins, Little Rock, Ark. (1923) and Mississippi County R. I. D. No. 1, Osceola, Ark. (1924). TT 2: SP 2. Refers to H. Cross, T. D. Mylrea, G. W. Pickels, C. C. Wiley, C. C. Williams.

1114

(1) WIAINT, PAUL PRINCE, Foochow, China. (Age 39. Born near Westville, Ohio.) 1911 B. S., Ohio Wesleyan Univ. 1914 C. E., Univ. of Cin. TT 2: SP 2. 1911 to 1914 (while co-operative student) Laborer, Blue Print Boy, etc., Structural Designer, and Supt. in responsible charge, with Roos Bros., Gen. Contrs., reinforced concrete work. June to Nov. 1914 Supt. for Roos Bros. on warehouse building for International Harvester Co., Cincinnati, Ohio. TT 0.5: P 0.5: RC 0.5. Feb. to Nov. 1915 Asst. Supt. and Field Engr. for A. Bentley & Sons Co., Gen. Contrs., Toledo, Ohio, first on expansion of Overland Automobile Plant for John Willys Co., then on warehouse for Ft. Wayne (Ind.) Elec. Works. TT 0.8: P 0.8: RC 0.8: D 0.3. Dec. 1915 to May 1916 Officer Engr. and Estimator with James H. Wells, Contr., Cleveland, redesign of buildings, etc. TT 0.5: P 0.5: RC 0.5: D 0.3. June to Nov. 1916 Bldg. Contr., being member of firm, Wiant & Shuart, Gen. Contrs., Cleveland, on stores and flats. TT 0.5: P 0.5: RC 0.5. Dec. 1916 to date Engr. and Archt., Board of Foreign Missions of M. E. Church, New York City, design, supervision and consulting work on university and college buildings, schools, churches, hospitals, mission residences, open air

gymnasiums, post offices, office buildings, dams, water supplies, sewers and sewage disposal, roads, streets, electric plants, etc.; testing and developing local structural materials; training of Chinese in office and field engineering; past 5½ years Senior Staff Engr. TT 9.7: P 9.7: RC 9.7: D 7. TT 14: SP 2: P 12: RC 12: D 7.6. Refers to A. Q. Adamson, E. F. Black, J. H. Black, G. M. Braune, H. Schneider, C. F. Taylor, J. R. West.

1115

(1) WILKIN, PHILIP, 1 Park Ave., New York City. (Age 27. Born Fairplay, Colo.) 1920 A. B., Colo. Coll. 1922 C. E., Thayer School of Civ. Eng. TT 2: SP 2. May 1922 to date with New York Reciprocal Underwriters, New York City, until Nov. 1925 as Inspector, Drafting Board, inspections, surveys and reports on mercantile and manufacturing plants, tests of fire-protection apparatus, etc., and since Nov. 1925 Field Engr. and Solicitor, on investigation of plants, etc. TT 4.2: SP 0.2: P 4: RC 4. TT 6.2: SP 2.2: P 4: RC 4. Refers to R. Fletcher, C. A. Holden, R. R. Marsden, R. N. Miller, A. P. Richmond, Jr.

1116

(1) WILLIAMS, CHARLES AUGUSTUS, Jr., 621 West 171st St., New York City. (Age 36. Born New York City.) Feb. 1905 to March 1909 Timekeeper and Constr. Office Clerk, Westinghouse, Church, Kerr & Co., at Sharon, Vt. TT 4.1: SP 4.1. April 1909 to Nov. 1911 Foreman with Hady & Wight, surveying and installing sewage-disposal plants. TT 2.7: SP 2.7. Jan. 1912 to Aug. 1913 Timekeeper, Underpinning & Foundation Co., Sec. 3, New York Subway. TT 1.7: SP 1.7. Sept. 1913 to Jan. 1915 Gen. Foreman, Foundation Co. of New York, concrete piers, Pennsylvania R. R. Bridge, Ohio, concrete sea wall, Hunts Point, New York City. TT 1.3: SP 1.3. Jan. 1915 to March 1916 Concrete Foreman, U. S. Realty Corporation, on subways, New York City. TT 1.2: SP 1.2. March 1916 to Feb. 1920 Gen. Labor Foreman, Robbins Ripley Co., concrete seawall, New York Dock Co., Brooklyn, N. Y. TT 4: SP 4. Feb. 1920 to Aug. 1922 Pres., Williams Constr. Co., designing and building small houses, Brooklyn, N. Y. TT 2.6: P 2.6: RC 2.6: D 2.6. Sept. 1922 to July 1924 Supt., Charles Meads Co., in charge of construction of Public Schools, 16 and 99, Brooklyn. TT 1.9: P 1.9: RC 1.9. July 1924 to date Gen. Supt., Lustbader Constr. Co., in charge of construction Public School 109, Queens (\$1 000 000) and New Jamaica (\$2 100 000) and Roosevelt (under construction \$2 300 000) High Schools, foundations for inspection shed, Interboro Rapid Transit Co., Corona, N. Y., also estimated Jamaica and Roosevelt High Schools, Bronx Gen. Hospital, addition to Kings County Hospital, Brooklyn, 15-story loft building, and Public School 174, New York City, etc., also had charge of construction of Franklin Hotel, Long Beach, N. Y. (\$600 000) and designed and supervised construction of a residence (\$30 000); designed and at present building residence in Scarsdale, N. Y. (\$25 000). TT 2: P 2: RC 2. TT 21.5: SP 15: P 6.5: RC 6.5: D 2.6. Refers to W. Beattie, D. G. Edwards, H. W. Ferris, W. L. Hanavan, C. Meads, A. Rogers.

1117

(8) WISDA, JOHN ALBERT, 7934 Dante Ave., Chicago, Ill. (Age 21. Born Cripple Creek, Colo.) 1926 B. S. in C. E., Iowa State Coll. TT 2: SP 2. July 1926 to date Apprentice, McClintic-Marshall Constr. Co. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to B. Bird, R. A. Caughey, W. L. Foster, A. H. Fuller, F. Kerekes.

1118

(14) WITHEE, JOSEPH ADELBERT, 420 South River Boulevard, Independence, Mo. (Age 21. Born Omaha, Nebr.) 1926 B. S. in C. E., Univ. of Kans. TT 2: SP 2. Refers to E. Boyce, W. C. McNowen, H. A. Rice, F. A. Russell.

1119

(1) WOLFE, HENRY, 2225 Ocean Ave., Brooklyn, N. Y. (Age 29. Born New York City.) 1918 B. S. in C. E., and C. E., Cooper Inst. Tech. TT 2: SP 2. May to Sept. 1917 Jun. Asst. Engr., Public Service Comm., New York City, on subway and elevator construction. May 1918 to Jan. 1919 Structural Draftsman, Air Nitrates Corporation, New York City, structural design and drafting on Muscle Shoals Nitrate Plant. TT 0.7: SP 0.3: P 0.4: D 0.4. April 1919 to Jan. 1920 Jun. Engr., Transit Comm., New York City, in charge of estimating force on subway and elevator construction. TT 0.8: P 0.8: RC 0.5. Jan. 1920 to Feb. 1921 Structural Designer with Smith, Hinchman & Grylls, Detroit, Mich., designing, checking structural steel and reinforced concrete on industrial plant and general construction. TT 1: P 1: D 1. Feb. 1921 to April 1923 Structural Checker with J. N. Ehrenberg, Cons. Engr., New York City, designing, detailing, checking structural steel. TT 2.1: SP 0.5: P 1.6: D 1. April 1923 to Jan. 1924 Structural Designer, Standard Oil Co. of New York, New York City, designing, checking reinforced concrete on garage and warehouse construction. TT 0.9: P 0.9: D 0.9. Jan. 1924 to date Squad Leader, Elec. Bond & Share Co., New York City, in full charge of designing squad on steel and concrete power house construction. TT 2.7: P 2.7: RC 2.3: D 2.7. TT 10.2: SP 2.8: P 7.4: RC 2.8: D 6. Refers to L. R. Cobb, C. I. Colyer, M. A. Rifkinson, G. H. Seybolt, H. R. Stocker.

1120

(11) YOUNG, JACOB CLOUGH, Box 586, Willows, Cal. (Age 23. Born Portsmouth, Ohio.) 1926 B. S. (C. E.), Univ. of Cal. TT 2: SP 2. May to July 1926 Concrete Inspector and Office Asst., Merced Irrigation Dist., on Exchequer Dam. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to R. E. Davis. C. Derleth, Jr., B. A. Etcheverry, C. G. Hyde, P. A. Swafford.

1121

(1) YOUNG, WILLIAM NELSON, 143 East 39th St., New York City. (Age 22. Born Washington, D. C.) 1926 B. E., Johns Hopkins Univ. TT 2: SP 2. July to Sept. 1920 Laboratory Apprentice and Helper, Aeronautic Instruments Div., and July to Sept. 1921 Laboratory Aid, Textile Div., Bureau of Standards, Washington, D. C. June to Sept. 1925 with U. S. Coast and Geodetic Survey, as Lightkeeper and part of time Recorder on primary triangulation. June 1926 to date Sales Engr., Albert Oliver & Son, Inc., New York City, wire mesh reinforcement, wire and steel specialties. TT 0.4: SP 0.4. TT 2.4: SP 2.4. Refers to J. H. Gregory, J. T. Thompson.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

1122

(12) ALEXANDER, ROBERT LEE, Assoc. M., 1374 Seventh Ave. East, Vancouver, B. C., Canada. (Elected Junior Nov. 1, 1904; Assoc. M. Dec. 5, 1906.) (Age 44. Born Scotsville, Ky.) 1902 B. S. in Civ. Eng., Agri. and Mech. Coll. of Tex. TT 2: SP 2. June 1902 to April 1905 Topographer, Draftsman and Instrumentman, Mexican Central Ry. and Chicago, Rock Island & Pacific Ry. (2 years), private work, map of Little Rock, Ark. (% year) and Inspector, levee construction, Mississippi River, Memphis, Tenn. (% year). TT 2.8: P 2.8: D 0.5. April 1905 to April 1906 Res. Engr., C. B. I. & P. Ry., Little Rock South, on construction, in charge of some light team grading with timber bridges. TT 1: P 1: RC 1. April 1906 to April 1911 and Jan. to Oct. 1912 with Northern Pacific Ry., 2 years as Res. Engr., St. Regis-Paradise Line and Tacoma Tenino, double track construction, 6 months Locating Engr., North Dakota Lines, 3 1/4 years in charge of construction district, Desmet to St. Regis grade revision; Asst. Engr., Missouri River Ry., Mandan South Line (Dakota) and Tenino-Portland, double track work. TT 5.8: P 5.8: RC 5.8. April 1911 to Jan. 1912 Engr. and Supt., Caughren, Boynton & Co., Spokane-Snake River construction, Oregon-Washington R. R. & Navigation Co. TT 0.7: SP 0.7: P 0.7: RC 0.7. Oct. 1912 to Oct. 1914 Res. Engr., Canadian Pacific R. R., Kettle Valley construction, in charge of construction (7 to 15 miles), heavy rock work, including a tunnel. TT 2: P 2: RC 2. Nov. 1914 to Sept. 1916 Jun. Engr., U. S. Reclamation Service, Strawberry Valley project, Payson, Utah, on canal construction; Jun. Engr., Interstate Commerce Comm., railway valuation, Pacific Dist. TT 1.8: P 1.8. Sept. 1916 to March 1920 Asst. Engr., C. M. & St. P. Ry., Valuation Dept., 6 months checking I. C. C. valuation, Western Lines, 2 1/2 years in charge of party on valuation of minor terminals, Eastern Dist. and in charge of roadway and track parties, Chicago Terminal valuation, 6 months in Chicago office in charge of squad checking I. C. C. roadway and track valuation notes. TT 3.5: P 3.5: RC 3: D 0.5. June 1920 to June 1923 with Grant, Smith Co. and McDonnell, Ltd., Vancouver, B. C., 1 year as Engr. Estimator, 2 years Engr. and Gen. Foreman on contract work, Vancouver and vicinity. TT 3: P 3: RC 2. June to Dec. 1923 Res. Engr., Montana Ry. Co., Miles City, Mont., in charge of some construction, light team and grader work. TT 0.5: P 0.5: RC 0.5. June to Dec. 1924 Engr., International Timber Co., Campbell River, B. C., in charge of party on logging railroad location, and also locating branch lines and spur extensions to existing logging railway. TT 0.5: P 0.5: RC 0.5. Jan. 1925 to date with Thomsen & Clark Timber Co., six months as Asst. Engr. in charge of party locating branch lines and spur extensions to logging railroad and over 1 year Logging Engr. in charge of all engineering work. TT 1.6: P 1.6: RC 1: D 0.5. TT 25.2: SP 5.7: P 19.5: RC 16.5: D 1.5. Refers to O. S. Bowen, E. B. Crane, W. L. Darling, W. J. Ryan, T. H. Strate, P. E. Thian, W. H. Woodbury.

1123

(8) BAYLISS, PAUL, Assoc. M., 420 West Capital Ave., Springfield, Ill. (Elected Sept. 11, 1917.) (Age 39. Born Waxahachie, Tex.) 1926 B. S. in C. E., Univ. of Mo. TT 2: SP 2. Sept. 1909 to May 1910 Asst. Engr., St. Louis Public Service Comm., on valuation of utilities, field and office work. TT 0.7: SP 0.3: P 0.4: RC 0.4. May 1910 to Feb. 1911 Asst. City Engr., Albert Lea, Minn., on design of sewers and paving. TT 0.7: P 0.7: D 0.7. Feb. 1911 to Aug. 1914 Constr. Engr., Kelley Island Lime & Transport Co., in charge of

construction of lime plants and crushers at Clay Centre, Ohio. *TT 3.5: P 3.5: RC 1.5: D 2.* Aug. 1914 to Oct. 1917 and Feb. to Dec. 1919 Asst. Engr., Missouri Public Service Comm., on valuation of utilities. *TT 4: P 4: RC 3.3: D 0.7.* Oct. 1917 to Feb. 1919 with U. S. Army, 2 months at Ft. Leavenworth and 1½ years with 8th Mounted Engrs., at Ft. Bliss, Tex., 2d Lieut., engineering work, bridges, etc. *TT 2.3: P 2.3: RC 2.3.* Dec. 1919 to Sept. 1921 Asst. Engr., American Appraisal Co., Milwaukee, Wis., industrial valuation of plants. *TT 1.7: P 1.7: RC 0.7: D 1.* Sept. 1921 to Feb. 1922 Asst. Engr., National Appraisal Co., St. Louis, Mo., on industrial valuation. *TT 0.4: P 0.4: RC 0.2: D 0.2.* Feb. 1922 to date Asst. Civ. Engr., Central Illinois Public Service Co., in office and field, design and direction. *TT 4.5: P 4.5: RC 2: D 2.5.* *TT 19.9: SP 2.3: P 17.6: RC 10.5: D 7.1.* Refers to J. E. Allison, R. C. Gray, S. A. Greeley, D. H. Maury, W. W. K. Sparrow, W. D. P. Warren.

1124

(9) BENNETT, JOSEPH GARDNER, Assoc. M., Denison Univ., Granville, Ohio. (Elected Aug. 9, 1920.) (Age 36. Born Waverly, Iowa.) 1912 B. S. C. E., Cornell Coll. 1918 B. S. in C. E., and 1925 C. E., Univ. of Wis. *TT 2: SP 2.* July to Sept. 1910 Draftsman and June to Sept. 1911 Instrumentman, Iowa Eng. Co. Jan. and April 1912 Leveler, Iowa Ry. & Light Co., Cedar Rapids, Iowa. *TT 0.2: SP 0.2.* May to Sept. 1912 with E. V. H. Brown, Albert Lea, Minn., drafting and surveying, land drainage projects. *TT 0.4: SP 0.4: D 0.1.* Sept. to Dec. 1912 Instrumentman, City of Albert Lea. *TT 0.2: SP 0.2.* Jan. 1913–April 1915 Asst. to Chf. Engr., New Orleans (La.) Lake Shore Land Co., drainage project, construction of pumping stations, bridges, levees and canals, land subdivision, city planning, building houses, roads, ditches, water mains, dredges, barges, etc. *TT 2.3: P 2.3: RC 1.5.* May 1915 Res. Engr. on wharf construction. June 1915–Jan. 1916 drainage research, east coast of Florida, Drainage Section, U. S. Office Roads and Rural Eng. Washington, D. C. *TT 0.7: P 0.7.* Feb. 1916–June 1917 student, Univ. of Wisconsin. April 1917–March 1918 (part of time, total 6 months) Surveyor, Wisconsin Highway Comm. *TT 0.5: P 0.5.* Aug. 1917 at Officers' Camp, Ft. Sheridan, Ill. April 1918–July 1919 with U. S. Naval Reserve Force; Supply Officer, Sault Ste. Marie, Mich.; Lieut. (Jun. Grade), S. C., U. S. N. R. F. *TT 1.4: P 1.4: RC 1.3.* Aug. 1919 to 1920 Engr., Bridge Dept., Wisconsin Highway Comm., designing steel and reinforced concrete bridges. *TT 0.6: P 0.6: D 0.6.* 1920 to 1921 Instructor, Univ. of Wisconsin. *TT 1: P 1: D 0.5.* Aug. to Dec. 1921 City Mgr., Ft. Myers, Fla., also acting as City Engr. *TT 0.4: P 0.4: RC 0.4.* 1922 to 1924 Asst. Prof. of Civ. Eng., and Acting Head of Dept. of Civ. Eng., Marquette Univ. *TT 2: P 2: RC 2.* 1924 to date Prof. of Civ. Eng. and Head of Dept. of Civ. Eng., Denison Univ., also Village Engr. of Granville, Ohio. *TT 2: P 2: RC 2.* *TT 13.7: SP 2.3: P 10.9: RC 7.2: D 1.2.* Refers to V. A. Eberly, T. C. Hatton, S. H. McCrory, D. W. Mead, A. M. Shaw, F. E. Turneaura

1125

(5) DuBOIS, GEORGE BACHE, Assoc. M., 1870 Wyoming Ave., Washington, D. C. (Elected Aug. 9, 1920.) (Age 38. Born Washington, D. C.) 1911 C. E., Lafayette Coll. *TT 2: SP 2.* Aug. 1911 to April 1912 Rodman, Pennsylvania R. R. *TT 0.7: SP 0.7.* May 1912 to June 1913 Engr. for Myers & McWilliams, Contrs., Lancaster, Pa., in charge of heavy grading and construction, Lock No. 25, New York State Barge Canal. *TT 1: P 1: RC 1.* July 1913 to March 1915 Asst. Engr. (11 months), Engr. in Charge, Santa Lucia (Cuba) Co., location, design and construction (\$250 000) and maintenance of way and operation of 150-km. system of railroad. *TT 1.7: P 1.7: RC 1.7: D 0.7.* March to June 1915 associated with P. F. Smith, Contr., in construction of railroads for Central Manati, Cuba, in entire or joint charge under contract. *TT 0.2: P 0.2: RC 0.2.* July to Dec. 1915 Engr. in charge location, design and construction of railroads of Punta Alegre Sugar Co. and in full charge of field work for Chf. Engr. of the plantation. *TT 0.5: P 0.5: RC 0.5: D 0.5.* Jan. to July 1916 Engr. for M. M. Belding at mills and mines of International Pulp Co., Gouverneur, N. Y., on studies and plan for reorganization of operations. *TT 0.5: P 0.5: RC 0.5.* Nov. 1916 to April 1917 Engr., Cia Minerales y metales S. A., of Monterey, Mexico, making reconnaissance in proposed mine districts in Mexico, reporting on possibilities, recommending type and giving estimate of cost of construction and operation of railroads. *TT 0.5: P 0.5: RC 0.5: D 0.5.* May 1917 to Sept. 1919 with U. S. Army, until July 1917 at training camp, then Commanding Officer, 6th Engr. Train, 3d Div., A. E. F.; Dec. 1917 to Aug. 1919 five major battles. *TT 2.4: SP 0.4: P 2: RC 2.* 1920 Engr., Southern Steel Eng. Co., Washington, D. C. Jan. 1920 to date associated with C. B. Rafter, Structural Engr. and Valuations, Washington, D. C.; March 1921 to Nov. 1922 Mgr., Rosslyn Steel & Cement Co., Washington, D. C.; Nov. 1922 to Jan. 1923 member of firm, DuBois & Hendrick, Bldrs.; April 1923 to April 1924 Valuation Engr., Rent Comm. of District of Columbia; April 1924 to May 1925 assisted on design and designed reinforced concrete and steel structures for numerous hotels, garages, office buildings, etc.:

since May 1925 Adjuster, Interstate Commerce Comm., railroad valuation. *TT 6.5: P 6.5: RC 6.5: D 6.5.* *TT 16.1: SP 3.1: P 13: RC 12.8: D 8.2.* Refers to G. B. Bright, A. E. Crane, C. B. Rafter, M. S. Rich, C. H. Tompkins, F. R. Weller, W. M. Wolfe.

1126

(1) FLETCHER, JOSIAH MONK, Assoc. M., 45 Highbury, Jesmond, Newcastle-upon-Tyne, England. (Elected Oct. 4, 1905.) (Age 53. Born Blackburn, Lancashire, England.) 1889 to 1891 with Thomas Riley, Ry. and Gen. Contr., Fleetwood, England, in office and shops and on outside work. *TT 2: SP 2.* 1891 to 1893 with T. H. Smith, Gen. and Bldg. Contr. on construction of the Tower and Victoria Pier, Blackpool, Victoria, England. *TT 2: SP 2.* 1893 to 1900 Contr. on construction of roads, buildings, etc., including stone school for Unitarians, and large residences (£2 000 each) at Blackpool, and stone work of Congregational Church at Poulton-le-Fylde. *TT 7: P 7: RC 7.* Jan. 1901 to April 1903 with Gold Coast Govt., West Africa, on railway construction (about 100 miles), including earthworks, bridges and culverts and track laying. *TT 2.2: P 2.2: RC 2.2.* Aug. 1903 to July 1904 Surveyor and Engr. on surveys for and construction of sea walls and track deviation, and Sept. 1904 to 1907 Supt., permanent-way maintenance, Jamaica Govt. Ry. *TT 4: P 4: RC 4.* 1908 to 1911 Supt., parochial roads and works for St. Mary, Jamaica, surveys and plans for buildings, roads, water supplies and maintenance of roads and buildings in parish. *TT 2.5: P 2.5: RC 2.5.* 1911 to 1912 in private practice as Surveyor and Civ. Engr., plans and supervision of construction, churches, houses, roads, surveys and plans for roads and land areas, etc. *TT 8: SP 4: P 4: RC 4.* 1919 to date with Public Works Dept., Jamaica, about 9 months locating and surveying for roads, etc. 6 months Supt., special reports, surveys, etc., and past 6 years Inspecting Engr. in charge of maintenance of roads, buildings and telegraph lines; had responsible charge of erection of new buildings and construction of new roads, etc. *TT 7.2: P 7.2: RC 7.2: D 7.2.* *TT 35: SP 8: P 27: RC 27: D 13.7.* Refers to S. C. Henriques, R. J. B. Hewson. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1127

(9) GRIMM, CLAUDE IRVING, Assoc. M., Federal Bldg., Cincinnati, Ohio. (Elected Oct. 10, 1916.) (Age 40. Born Clear Lake, Iowa.) 1908 B. C. E., and 1916 C. E., Iowa State Coll. *TT 2: SP 2.* June to Dec. 1907 and Dec. 1908 to Aug. 1909 Structural Draftsman, American Bridge Co., Ambridge, Pa., detailing railroad bridges. *TT 1.2: SP 1.2.* June to Dec. 1908 Bridge Inspector, Cerro Gordo Co., Iowa, on concrete bridge construction. *TT 0.5: SP 0.5.* Aug. to Dec. 1909 Structural Draftsman, Milliken Bros., New York City, detailing and checking structural drawing. *TT 0.3: SP 0.3.* Dec. 1909 to Aug. 1911 Squad Leader and Chf. Draftsman, Metropolitan Bridge Co., New York City, on design and detail drawings for steel building construction. *TT 1.7: P 1.7: RC 1.3: D 1.* Aug. 1911 to Aug. 1912 Asst. Chf. Engr., Owego (N. Y.) Bridge Co., designing and estimating steel highway bridges and buildings. *TT 1: P 1: D 1.* Dec. 1912 to April 1913 Res. Engr., Mission (Tex.) Canal Co., on construction of irrigation canals. *TT 0.3: P 0.3: RC 0.3.* April 1913 to April 1914 Asst. Chf. Engr., W. N. Kratzer & Co., Pittsburgh, Pa., designing and estimating steel frame buildings and cranes. *TT 1: P 1: RC 1: D 1.* April 1914 to date with U. S. Engr. Dept., Wheeling, W. Va., and Cincinnati, Ohio, until March 1917 as Jun. Engr. in charge of squad on designs for lock gates and steel structures; since March 1917 Asst. Engr. at Cincinnati, in charge of Designing Dept. for Ohio River locks and dams (3½ years) Chf. Engr. for surveys of proposed canals between Lake Erie and Ohio River, including designs and estimates for three routes (4½ years) and charge of Designing Dept. and Asst. to Div. Engr. on lock and dam design, water power and water transportation studies (1½ years). *TT 12.3: P 12.3: RC 12.3: D 4.9.* *TT 20.3: SP 4: P 16.3: RC 15: D 7.9.* Refers to C. M. Canady, L. D. Cornish, F. B. Duis, E. D. Gilman, C. W. Kutz, W. H. McAlpine, A. B. McGrew.

1128

(11) KELTON, FRANK CALEB, Assoc. M., 412 East Fourth St., Tucson, Ariz. (Elected Feb. 6, 1912.) (Age 44. Born Montgomery, Vt.) 1904 B. S., Univ. of Ariz. 1916 M. S., Univ. of Cal. *TT 2: SP 2.* June to Sept. 1902 Laborer, Bridge Dept., Southern Pacific R. R. June to Sept. 1903 Engr., Old Dominion Copper Mining & Smelting Co., Globe, Ariz., on surveys. June 1904 to May 1905 surveys in Tucson, Ariz. (private work). *TT 1: P 1: RC 1.* May 1905 to Nov. 1906 Draftsman and Computer, Gila Valley, Globe & Northern R. R., Tucson. *TT 1.5: SP 1.5.* Nov. 1906 to Jan. 1907 Res. Engr., Ferro Carril de Cananea, Rio Yaqui y Pacifico, Sonora, Mexico, in charge of construction of 15 km. of railroad. *TT 0.3: P 0.3: RC 0.3.* Jan. 1907 to July 1908 and Jan. 1909 to June 1912 Asst. Engr., Arizona Agricultural Experiment Station, Tucson, until July 1908 acted as Field and Office Asst. and Draftsman on irrigation research, and instructor in surveying and drawing, and after Jan. 1909 on irrigation investigations and research. *TT 5: SP 1.5: P 3.5: RC 3.5.* July 1908 to Jan. 1909 Asst. Engr., Southern Pacific R. R., Tucson, estimates and design. *TT 0.5: P 0.5: RC 0.5: D 0.5.* June 1912 to June 1918 Asst. Prof., June 1918 to June 1919 Asso-

ciate Prof., and June 1919 to date Prof. (Head of Dept.) of Civ. Eng., of Univ. of Arizona. *TT 14: P 14: RC 14: D 7. TT 24.3: SP 5: P 19.3: RC 19.3: D 7.5.* Refers to R. G. Baker, J. W. B. Blackman, A. H. Connolly, W. E. Dickinson, B. A. Etcheverry, J. N. Gardiner, W. S. King, W. W. Lane, J. C. McClure, G. E. P. Smith, S. M. Woodward.

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(12) **LOGAN, EUGENE**, Assoc. M., 720 Peyton Bldg., Spokane, Wash. (Elected Jan. 19, 1920.) (Age 42. Born Farmington, Wash.) 1904 to 1908 (3½ years) student in Civ. Eng., Washington State Coll. *TT 1: SP 1.* June to Sept. of years 1905 and 1906 Recorder and Instrumentman on triangulation, U. S. Geological Survey. *TT 0.6: SP 0.6.* June to Dec. 1907 and June 1907 to July 1926 with Washington Water Power Co. as follows: June to Dec. 1907 Leveler and Transitman, June 1908 to Sept. 1909 Transitman, Sept. 1909 to Jan. 1912 Chf. of survey party on transmission line location; Jan. 1912 to Jan. 1921 Engr. in charge of surveys and mapping, storage reservoirs, transmission and distribution lines, underground distribution system in Spokane, street railway (surveys and design of track special work layouts and structures), appraisals, real estate and tax records, in charge of hydrology, including design, construction, operation and maintenance of ten automatic-recorder, eight river-gauging and three weather-bureau stations; reports for hydro-electric development, investigations and reports on irrigation pumping, etc.; Field Engr. on installation, 3d unit (22 500 h.p.), Long Lake; Jan. 1921 to July 1926 Civ. Engr. in charge of surveys, investigation, hydrology, land and water rights, cost data and estimates, contracts and major maintenance; supervision of field engineering, Upper Falls project (15 000 h.p.); preliminary investigation and surveys, Kettle Falls Project; supervision of installation of 4th unit (22 500 h.p.), at Long Lake, including penstock and auxiliary equipment, unit (2 300 h.p.), Oroville Station, including pipe line, penstock and surge tank, and of East Side Substation (20 000 kv.-a.), also miscellaneous work for hydro-electric stations, including construction of bridges, roads, cottages, reconstruction of headworks, water filters, domestic water systems, etc.; supervision of investigation and survey, accounting system, water rights, etc., on Chelan Project. Aug. 1926 to date in private practice as Civ. Engr. *TT 18.5: SP 1.7: P 16.8: RC 14.5: D 5. TT 20.1: SP 3.3: P 16.8: RC 14.5: D 5.* Refers to C. E. Davis, F. C. Dunham, B. J. Garnett, J. O. Greenway, R. L. Hearn, G. L. Parker, J. C. Ralston, E. G. Taber, R. K. Tiffany, A. J. Turner.

1130

(15) **MATTHEWS, HOMER MITCHELL**, Assoc. M., 1112 Kirby Bldg., Dallas, Tex. (Elected June 19, 1922.) (Age 35. Born Dawson, Tex.) 1911 to 1914 and 1915 to 1916 student, School of Eng., Univ. of Texas. Summers 1911-1913 Rodman and in charge of level party on surveys. *TT 0.7: SP 0.2: P 0.5.* June 1914 to Sept. 1915 Inspector and later Office Engr. in office of Sewer Constr. Engr., San Antonio, Tex. *TT 1.2: SP 0.2: P 1: D 1.1.* June 1916 to Feb. 1917 Topographical Draftsman in office of Dept. Engr., Southern Dept., Ft. Sam Houston, Tex. *TT 0.7: P 0.7.* Feb. to June 1917 Drainage Engr., San Antonio Sewer Pipe Works, promoting drainage projects. *TT 0.4: P 0.4: RC 0.4: D 0.4.* June 1917 to June 1918 on design and construction of sewer and water systems of Camp Travis, Tex. until Dec. 1917 as Asst. Engr. with John B. Hawley, Cons. Engr., then as Office Engr., McKenzie Constr. Co., San Antonio. *TT 1.1: P 1.1: RC 0.6: D 0.1.* June to Dec. 1918 with Constr. Div., U. S. Army as Engr. in charge of design and construction of sewer and water systems of Camp Shelby, Miss.; redesigned pumping plant and water-distribution system. *TT 0.6: P 0.6: RC 0.6: D 0.6.* Dec. 1918 to July 1919 Constr. Engr., Geo. A. Fuller Co., on New Orleans (La.) Army Supply Base (approx. \$15 000 000), including 6-story reinforced concrete warehouse and 2 000-ft. 2-story wharf. *TT 0.6: P 0.6: RC 0.6.* Oct. 1919 to Feb. 1922 Engr., McKenzie Constr. Co., on preliminary design of sewer systems, sewage-disposal plants, water-supply systems, buildings, etc. (in co-operation with Cons. Engr.); design of form work and false work of structures under contract; estimates and quantity survey for new work; work constructed consists of sewer and water systems, sewage-disposal plants, brick and concrete paving, concrete hotel and mill buildings and bridges, etc. (about \$2 000 000). *TT 2.2: P 2.2: RC 2.2: D 2.2.* Feb. to Dec. 1922 Office Engr., Mexican Light & Power Co., Mexico City, on construction of hydro-electric plant addition (60 000 h.p.) to Necaxa hydro-electric Development, about 3 months on office work, then Asst. to Res. Engr., and later in charge of construction of transmission line. *TT 0.8: P 0.8: RC 0.8: D 0.8.* Jan. 1923 to Sept. 1924 First Asst. Bridge Engr., Texas State Highway Dept., in charge of design of Brazos River Bridge (697 ft. modified cantilever structure, approx. cost \$350 000) and Neches River Swing Bridge at Beaumont, Tex. (240-ft. swing-span, two 125-ft. approach spans, approx. cost \$250 000), etc. *TT 1.7: P 1.7: RC 1.7: D 1.7.* Sept. 1924 to March 1926 Designing Structural Engr., Dallas, Tex., on steel and reinforced concrete frame buildings, bridges, etc., also detailed steel for concrete structures. *TT 1.5: P 1.5: RC 1.5: D 1.5.* March 1926 to date State Representative as Sales Engr. for Laclede Steel Co. of St. Louis, Mo., in charge of

all sales, promotion and development. TT 0.3: P 0.3: RC 0.3: D 0.3. TT 11.9: SP 0.4: P 11.5: RC 8.8: D 8.8. Refers to W. M. Elliott, J. D. Fowler, J. Z. George, G. H. Gilchrist, O. H. Koch, A. J. McKenzie, W. H. Meler, J. C. Nagle, E. N. Noyes, J. L. O'Hearn, W. J. Powell, E. W. Robinson, T. U. Taylor, G. G. Wickline.

1131

(1) MAYNARD, CLARENCE FRANCIS, Assoc. M., U. S. Coast and Geodetic Survey, Manila, Philippine Islands. (Elected July 6, 1920.) (Age 38. Born Norwich, Conn.) 1912 C. E., Syracuse Univ. TT 2: SP 2. July 1912 to March 1913 Instrumentman, Delaware, Lackawanna & Western R. R. TT 0.7: SP 0.7. March to July 1913 Leveler and July 1913 to Jan. 1914 Asst. Transitman, Canadian Pacific Ry. TT 0.8: SP 0.8. March to Oct. 1914 Inspector of pavement and sewer construction for City of Syracuse, N. Y. TT 0.7: SP 0.7. Jan. 1915 to Jan. 1916 in Peru, S. A., for Yale Univ. and National Geographic Society; Topographer, Yale Peruvian Expedition; mapped sections of Urubamba Valley, Explored Cosari River Valley and mapped the river from source to junction with Urubamba; Jan. 1916 to Jan. 1917 at Yale Univ. working up data obtained in Peru. TT 2: P 2: RC 2. Jan. 1917 to July 1918 with National Geographic Society, Washington, D. C., until May 1917 on preparation for expedition to Alaska; May to Oct. 1917 Topographer of Expedition, Katmai Region, Alaska, mapped valley of Ten Thousand Smokes and Katmai Crater; Nov. 1917 to July 1918 worked up data obtained in Alaska and constructed map. TT 1.5: P 1.5: RC 1.5. July 1918 to Jan. 1919 with U. S. Army part of time instructing in topographic mapping at Camp Humphreys, Va.; 2d Lieut., Engrs. TT 0.5: SP 0.5. March to July 1919 in Eng. Dept., Standard Tank Car Co., Sharon, Pa. TT 0.3: SP 0.3. July 1919 to July 1920 with Land Dept., Home Oil Refining Co., Ft. Worth, Tex., until Jan. 1920 as Engr. in charge of field work, locating pipe lines, etc., land and topographic surveys; then Chf. Engr., in charge of surveys. TT 1: P 1: RC 1. July 1920 to July 1923 with Sinclair Oil Co., until Jan. 1921 at Oakman, Ala., as Topographer on large scale maps, then Engr. on control survey of Company's concession in Angola, Africa. TT 3: P 3: RC 1.8: D 1.2. Oct. 1923 to April 1924 and June 1924 to date with U. S. Coast and Geodetic Survey, until April 1924 at Washington, D. C., as Computer, studying methods of adjustment and computation of triangulation and since June 1924 Chf., Computing Div., at Manila, Philippine Islands, in charge of adjustment and computation of triangulation, reduction of tides, sounding records, etc. TT 2.5: SP 0.5: P 2: RC 2. TT 15: SP 5.5: P 9.5: RC 8.3: D 1.2. Refers to W. J. Grodskse, S. B. Palmer, C. E. Perry, H. A. Seran, F. L. Stuart.

1132

(12) ROSECRANS, MERLE WILLIAM, Assoc. M., 1502 Center St., Salem, Ore. (Elected Oct. 11, 1920.) (Age 37. Born Ruthven, Iowa.) 1912 B. S. in C. E., Iowa State Coll. TT 2: SP 2. June to Sept. of years 1909 and 1910 Rodman, drainage surveys, Lincoln County, S. Dak. March to May 1911 Levelman, Iowa Traction Co. June to Sept. 1911 Laborer, sewer and water-works construction, Ames, Iowa. June to Sept. 1912 Foreman, sewer construction, Ft. Dodge, Iowa. TT 0.2: SP 0.2. Sept. 1912 to Feb. 1913 Supt., sewer construction, Ames, in charge, for contractor, of construction of storm-water drainage system for northeastern part of City. TT 0.4: P 0.4: RC 0.4. April to July 1913 Draftsman and Computer, highway location, Portland, Ore. TT 0.2: SP 0.2. July to Nov. 1913 Inspector, pile trestle construction, Hamilton Creek Ry. Co., Portland. TT 0.4: SP 0.4. Nov. 1913 to March 1914 Foreman, sewer construction, Ames. TT 0.3: SP 0.3. March 1914 to Jan. 1915 in charge of office for a Cons. Engr.; handled 11 miles of heavy highway construction, designed powder storage plant (1200 tons), etc. TT 0.8: P 0.8: RC 0.8: D 0.2. April 1915 to Oct. 1918 Asst. Mgr., logging camp and sawmill, on reconstruction of mill, construction of timber flume (5 miles), operation of plant, etc. TT 3.5: P 3.5: RC 3.5: D 0.5. Oct. 1918 to June 1919 Instructor in Surveying, C. E. Dept., Oregon State Coll. TT 0.6: P 0.6. June 1919 to date Asst. Bridge Engr., Oregon State Highway Dept., Salem, Ore., in charge of designs and preparation of contracts for bridge construction. TT 7.1: P 7.1: RC 7: D 4.7. TT 15.6: SP 3.1: P 12.5: RC 11.7: D 5.4. Refers to L. E. Brigham, L. P. Campbell, W. D. Clarke, J. C. McLeod, R. E. Mieth, R. B. Wright.

1133

(13) TORPEN, ALEX MAGNUS, Assoc. M., 523 Sharon Bldg., San Francisco, Cal. (Elected Oct. 7, 1914.) (Age 45. Born Osseo, Wis.) 1907 B. S. in C. E., Univ. of Cal. TT 2: SP 2. June to Sept. of years 1903 and 1904 Recorder, Rodman and Traverseman, U. S. Geological Survey, on topographic work in Washington. Jan. to April 1905 Draftsman and Cement Tester, Washington Water Power Co., Spokane, Wash. TT 0.3: SP 0.3. May to Aug. of years 1905 and 1906 Field Engr. Asst. to County Engr., and June 1907 to Feb. 1909 Deputy County Engr., Chehalis County, Wash. Dec. 1906 to Jan. 1907 Computer, Rodman, etc., on railroad survey in California. TT 2: SP 0.3: P 1.7: RC 1.2: D 0.6. March to Aug. 1909 Field Asst., U. S. Irrigation Investigations, California. TT 0.3: P 0.3:

D 0.3. Aug. 1909 to April 1910 graduate student and Instructor in Civ. Eng., Univ. of California. TT 0.7: P 0.7: D 0.7. April 1910 to May 1911 with J. R. Freeman, Providence, R. I., as Asst. Res. Engr. on Big Bend Dam, Cal., and on Holter Power Development, Montana, and in charge of drilling and grouting foundations at Horseshoe Falls Dam on Bow River near Calgary, Alberta. TT 1.2: P 1.2: RC 1.2. May 1911 to June 1912 with Stone & Webster Eng. Corporation on hydro-electric investigations on Rubicon, Truckee and Walker Rivers, California, on location and construction of Big Creek R. R., California, and on location of transmission line from Big Creek to Los Angeles. TT 1.1: P 1.1: RC 1.1. July 1912 to Aug. 1918 with F. G. Baum, San Francisco, on investigations, design and construction of La Oroya and Pachachaca Power Developments in Peru, and on investigations and reports for various hydro-electric developments in Alaska, Arizona, Chili, Bolivia and Argentine. TT 6: P 6: RC 3: D 2. Aug. 1918 to Jan. 1920 Chf. Engr. and Supt. of Constr., American Vanadium Co., Rician, Peru. TT 1.5: P 1.5: RC 1.5. April to Dec. 1920 with Elec. Bond & Share Co., New York City, on hydro-electric investigation in Bolivia. TT 0.7: P 0.7: RC 0.7. Jan. and Feb. 1922 Special Asst. Engr., U. S. Forest Service, on hydro-electric projects in Alaska. TT 0.2: P 0.2: D 0.2. March 1922 to date with Thebo, Starr & Anderton, Inc., San Francisco, in charge of investigations, reports, plans, etc., for various irrigation hydro-electric and industrial projects in California, Washington, Oregon, Alaska, Mexico and Japan. TT 4.5: P 4.5: RC 2: D 2.5. TT 20.5: SP 2.6: P 17.9: RC 10.7: D 6.2. Refers to F. G. Baum, E. B. Bumsted, C. Derleth, Jr., B. A. Etcheverry, J. R. Freeman, F. H. Fowler, C. G. Hyde, L. R. Jorgensen, K. R. Kennison, A. A. Northrop, W. J. Roberts, F. M. Thebo, H. C. Vensano, A. L. Wilcox.

1134

(1) VALLE ZENO, CARLOS DEL, Assoc. M., P. O. Box 116, San Juan, Porto Rico. (Elected April 1, 1908.) (Age 45. Born Arecibo, Porto Rico.) 1903 C. E., Univ. of Caracas, Venezuela. 1908 C. E., Univ. of Havana, Cuba. TT 2. 1898 to 1899 Asst. to City Engr., Ponce, Porto Rico. TT 1. 1899 to 1900 Sub-Inspector, highway construction, Porto Rico. TT 1. 1904 to 1910 with Milliken Bros., until 1905 in Eng. Dept., New York City, then Engr. in charge of Havana office, designing, contracting and supervising steel and other structures, including glassware factory (\$20 000), warehouses, steel bridges (\$65 000); preliminary design for steel bridge over Almendares River; steel structure for first Hotel Savilla, Havana (\$80 000); new Havana Abattoir (9 buildings, water tower, etc., \$500 000); preliminary study for terminal railroad station and elevated track at Havana. TT 6.5: RC 5.3: D 4.5. 1911 to 1913 member of firm, Del Valle Zeno Bros., Contr. Engrs., San Juan, Porto Rico, designing and constructing buildings, railroad, bridges, etc., Patillas Tunnel, and partly constructed dam (\$150 000), railroad (\$180 000), and improvement of cane car handling (\$30 000), for Central Monserrate, etc. TT 3: RC 3: D 2. 1914 to 1916 Mgr. and Engr., Hamilton & Chambers Co. of West Indies, in charge of Havana office, designing, contracting and supervising several buildings, etc., including sugar houses, cane transfers, shops (over \$250 000). TT 2.5: RC 2.5: D 1.5. 1917 to 1920 Engr. for several sugar mills in Cuba and Porto Rico; designed and had complete charge of supervision of extensive sugar mill improvements, including enlargement of evaporating house and steel buildings, Central Espana (\$650 000), and of Central Estrella, including water-storage tank on supply system (\$850 000), complete reconstruction of Central Pilar, including new steel buildings, shops, water-works system, etc. (\$1 500 000) in Porto Rico, designed sugar warehouses for Juncos and Monserrate and new cane shed for Coloso (\$90 000); also associated in design and supervision of 7-story building, New York City (\$130 000). TT 3.5: RC 3.5: D 2.5. 1921 to date Cons. and Constr. Engr., New York City, and San Juan, Porto Rico; work designed includes preliminary investigation of Rio Blanco Water Falls, filtration plants, San Juan, Mayaguez and Arecibo, Porto Rico, sanitary sewer system and pumping plant, Condado, San Juan abattoir, five school buildings, hospital, pumping plant and Spanish Club House, all at San Juan; District Hospital, reformatory school, including water-works, sewer system, preliminary plans for filter plant, etc., Ponce, Porto Rico (total \$3 495 000). TT 5.5: RC 5.5: D 5.5. TT 25: RC 19.8: D 16. Refers to M. V. Domenech, A. Hazen, E. E. Lochridge, A. Rodriguez, G. E. Tilt, E. Totti y Torres.

1135

(13) WADSWORTH, RALPH GILBERT, Assoc. M., 1320 Alaska Commercial Bldg., San Francisco, Cal. (Elected June 19, 1922.) (Age 36. Born Superior, Wis.) 1914 B. S. in C. E., Univ. of Cal. TT 2: SP 2. July to Dec. 1908 Rodman and Draftsman, placer mining reconnaissance. TT 0.5: SP 0.5. April to Aug. 1909 Chairman and Draftsman, Western Pacific Ry. TT 0.4: SP 0.4. Aug. to Dec. 1910 Rodman, Stone & Webster Eng. Corporation.

TT 0.4: SP 0.4. May to June 1911 Draftsman, Oakland & Antioch R. R. June to Aug. of years 1911 and 1913 Transitman and Computer, U. S. Engr. Dept., harbor survey. May to Aug. 1912 Instrumentman, California Debris Comm. May to Oct. 1914 Inspector for C. E. Grunsky on concrete dam. *TT 0.5: SP 0.5.* Nov. 1914 to April 1915 Asst. Engr., J. G. White Eng. Corporation, valuation report. *TT 0.5: SP 0.5.* May to Aug. 1915 Draftsman for H. T. Cory, on valuation and concrete design. *TT 0.3: SP 0.3.* Aug. to Nov. 1915 Chf. of Party and Asst. Engr. for Bonte & L'Hommedieu, on surveys and subdivision computations. *TT 0.3: SP 0.3.* Nov. 1915 to Aug. 1917 Res. Engr. for Fred H. Tibbetts, Chf. Engr., Sacramento River West Side Levee District and Reclamation Dist. No. 108, in charge of construction of river levees, drainage canals, timber bridges, retaining walls, culverts, headgates, removal and reconstruction of warehouses, etc. *TT 1.8: P 1.8: RC 1.8.* Sept. 1917 to June 1919 Lieut. and Capt., Engrs., U. S. Army, Adj., 318th Engrs., 6th Div., in France and Germany, on construction of railroad terminals and shops, dugouts, roads and bridges, 1 month commanded battalion. *TT 1.8: SP 1.8.* July 1919 to date with Fred H. Tibbetts, as follows: July 1919 to Sept. 1921 Res. Engr. in charge of construction of irrigation system for 20 000-acre ranch, including two reinforced concrete pumping plants (2 000 h.p. installed), etc. construction of steam-generating plant (1 000-kw.), installation of 48-in. screw pumps, supervision of operation of irrigation and drainage system, Reclamation Dist. No. 108 (58 000 acres), construction of headgate and trash rack in Central Canal (1 500 sec. ft.); Oct. 1921 to Dec. 1924 Asst. Engr. on designs and estimates of irrigation projects, field surveys and detailed design of drainage system for Glenn Colusa Irrigation Dist. (100 000 acres) contracts and plans for construction, Grenada Irrigation Dist. and supervision of construction (4 000 acres), Meek Estate Irrigation Project (2 000 acres), Alameda Sugar Co. (10 000 acres), Reclamation Dist. No. 70, Sacramento River West Side Levee Dist., etc.; plans and estimates for new irrigation projects in Siskiyou, Tehama and Colusa Counties; since Jan. 1925 Chf. Asst. Engr. and Office Mgr., on reports, plans and estimates for irrigation and reclamation projects, including Roosevelt Water Conservation Dist., Ariz. (40 000 acres), Nevada Irrigation Dist., Cal. (200 000 acres), Reclamation Dists. Nos. 70 and 2047 (20 000 and 230 000 acres), subdivision and construction irrigation system for Alameda Sugar Co. (10 000 acres), etc. *TT 7.2: P 7.2: RC 7.2: D 5.* *TT 15.7: SP 6.7: P 9: RC 9: D 5.* Refers to B. A. Etcheverry, C. E. Grunsky, H. L. Haehl, S. E. Kleffer, R. A. Monroe, F. H. Tibbetts.

1136

(10) WINN, WALTER SCOTT, Assoc. M., Alabama Power Co. Bldg., Birmingham, Ala. (Elected Oct. 6, 1897.) (Age 57. Born near Winchester, Ky.) 2 years student, Kentucky Univ. *TT 0.7: SP 0.7.* 1889 to 1890 Chf. of Party for Thompson, Hall & Bosler, Chattanooga, Tenn. *TT 0.7: SP 0.7.* 1890 to 1891 member of firm, Thompson, Hall & Winn, Engrs., Chattanooga. *TT 0.9: P 0.9: RC 0.9: D 0.2.* 1891 to 1893 with Engr. Corps, U. S. Army, 6 months as Levelman and 1 1/5 years Asst. Engr. on Tennessee River. *TT 1.7: P 1.7: RC 1.2: D 0.2.* 1893 to 1894 Recorder and Engr., St. Louis Post-Dispatch. *TT 0.3: P 0.3: RC 0.3.* 1894 to 1909 U. S. Asst. Engr., Engr. Corps, U. S. Army, Tennessee River, in charge of dredging operation and open channel improvements (1894 to 1898), construction of Colbert Shoals Locks (1898 to 1901) and of Muscle Shoals Div. (1901 to 1909), work included operation and care of Muscle Shoals Canal and design, construction and repair of floating plant and machinery for improvement of Tennessee and Cumberland Rivers. *TT 15.5: P 15.5: RC 15.5: D 5.* 1909 to 1911 Gen. Mgr., North Alabama Constr. Co., Gen. Contrs. on irrigation, drainage and lock and dam construction. *TT 1.9: P 1.9: RC 1.9.* 1911 to 1912 and 1920 to 1921 in private engineering practice at Chattanooga. *TT 1.3: P 1.3: RC 1.3: D 0.4.* 1912 to 1913 Chf. of Surveys, Alabama Power Co. *TT 1.2: P 1.2: RC 1.2.* 1913 to 1917 Prin. Asst. Engr. for Tennessee River, under Engr. Corps, U. S. Army, had charge of construction on river and of surveys, investigations and preliminary plans for combined scheme for navigation improvement and power development at Muscle Shoals. *TT 4: P 4: RC 4: D 2.* 1917 to 1918 U. S. Dist. Engr. for Nashville and Chattanooga Dists., Tennessee and Cumberland Rivers and tributaries. *TT 0.8: P 0.8: RC 0.8: D 0.4.* 1918 Disbursing Officer and Asst. Engr., Florence (Ala.) Dist., U. S. Engr. Corps, on construction of Wilson Dam. *TT 0.4: P 0.4: RC 0.4.* 1918 to 1919 with Air Nitrate Corporation as Works Engr. and Camp Supervisor at U. S. Nitrate Plant No. 2. *TT 1: P 1: RC 1.* 1920 Gen. Mgr., Southland Exploration Co., mining and milling zinc in East Tennessee. *TT 0.3: P 0.3: RC 0.3.* 1921 to date Asst. to Chf. Engr., Alabama Power Co. *TT 4.2: P 4.2: RC 4.2.* *TT 34.9: SP 3.6: P 31.3: RC 32: D 8.2.* Refers to L. H. Beach, H. Burgess, J. T. Fetherston, H. K. Higgins, C. James, H. McDonald, J. E. Parker, O. G. Thurlow, S. H. Woodard.

FROM THE GRADE OF JUNIOR

1137

(15) ALEXANDER, RALPH KIMBALL, Jun., 115 Field St., Dallas, Tex. (Elected Oct. 15, 1923.) (Age 25. Born Jacksonville, Tex.) 1922 B. S. in C. E., Agri. and Mech. Coll. of Tex. TT 2: SP 2. Jan. 1924 to Sept. 1925 Structural Engr. for Edward F. Nelld, Archt., Shreveport, La., on design and structural drawings for buildings; 2 months estimating for contractors. TT 1.7: P 1.7: RC 1.7: D 1.7. June 1922 to Jan. 1924 and Sept. 1925 to date with Truscon Steel Co., Dallas (Tex.) office, until Jan. 1924 as Designing Engr. in reinforced concrete building work, and since Sept. 1925 Field Engr. designing and estimating structural work on buildings for engineers and architects. TT 2.4: P 2.4: RC 0.9: D 2.4. TT 6.1: SP 2: P 4.1: RC 2.6: D 4.1. Refers to G. R. Burtner, H. M. Evans, P. M. Geren, E. L. Harshbarger, R. O. Jameson, J. L. O'Hearn, J. J. Richey.

1138

(1) CAMPAGNE, JAN VAN LOOKEREN, Jun., Ruitersstraat, Zalt-Bommel, Holland. (Elected Aug. 4, 1924.) (Age 31. Born Zalt-Bommel, Holland.) 1922 C. E., Delft Univ., Holland. TT 2: SP 2. Sept. 1912 to July 1913 Apprentice with W. Hanrath, Archt., drafting and supervising. TT 0.9: SP 0.9. April 1922 to June 1923 Engr. with Dutch Govt., mostly field work, supervising and surveying large canal works with steel bridges and concrete abutments, some designing. TT 1.2: P 1.2: RC 1: D 0.2. July 1923 to Jan. 1924 Draftsman, Survey Dept., New York Edison Co. TT 0.4: SP 0.4. Jan. to Dec. 1924 Civ. Engr.-Designer, Mexican Petroleum Corporation, New York City, design of construction for warehouses, garages, pump- and boiler-houses, etc. (steel and reinforced concrete). TT 0.9: P 0.9: D 0.9. Feb. 1925 to date Civ. Engr., F. L. Smidth & Co., Cement Plants, New York City, design of steel and reinforced concrete buildings and construction. TT 1.3: P 1.3: RC 1.3: D 1.3. TT 6.7: SP 3.3: P 3.4: RC 2.3: D 2.4. Refers to J. F. Krakauer, H. M. Lewis, A. M. McKean, Jr., O. E. Mogensen, T. S. Oxholm, L. L. Tribus.

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(1) CHRISTIAN, VALENTINE, Jun., 55-21 Toledo St., Elmhurst, N. Y. (Elected Nov. 25, 1919.) (Age 30. Born Brooklyn, N. Y.) 1917 B. S., Cooper Union Night School. Summer 1911 Axeman, with Douglas Knox, Surveyor, New York City. May 1912 to Jan. 1918 Chainman, Rodman, Transitman, Inspector, Draftsman on reinforced concrete, etc., Topographical Draftsman, etc., with Title Guarantee & Trust Co., New York City, New York, New Haven & Hartford R. R., New York Central R. R., Turner Constr. Co., Pennsylvania R. R., and Erie R. R. TT 5.3: SP 4.7: P 0.6. Jan. 1918 to May 1919 Private, Engr. Corps, U. S. Army, Laborer, Surveyor, charge of office, etc. TT 0.2: SP 0.1: P 0.1. May to Sept. 1919 Jun. Civ. Engr., Interstate Commerce Comm., Washington, D. C., acting as Recorder and Computer TT 0.3: SP 0.3. Sept. to Nov. 1919 Structural Steel Detailer, McClintie-Marshall Constr. Co., Carnegie, Pa. TT 0.2: P 0.2. Nov. 1919 to Jan. 1921 Structural Draftsman and Engr., The Borden Co. TT 1.2: P 1.2: RC 0.6: D 0.6. Feb. to June 1921 Draftsman and later Prin. Asst. to Head of Dept. of Civ. Eng., Y. M. C. A. Correspondence School. TT 0.3: P 0.3: RC 0.2. June 1921 to June 1922 Structural Draftsman and Engr., The Dairymen's League, New York City, designing and making plans for factories, timber, brick, concrete and steel. TT 1: P 1: RC 1: D 1. July to Aug. 1922 Structural Draftsman with Fietz & Daniel, New York City, detailing light structural steel. Aug. to Oct. 1922 Supt. of Constr., The Atkinson Housing Co., erecting ready cut houses, TT 0.4: P 0.4: RC 0.2. Sept. 1922 to April 1923 Draftsman, architectural and structural drafting, some design, McCellan & Junkersfeld, New York City. April to Sept. 1923 Structural Engr. and Draftsman, Abbott, Merkt & Co., New York City, reinforced concrete and Structural Steel Designer and Draftsman. TT 1: P 1. Sept. 1923 to July 1924 Structural Draftsman, Henry R. Kent & Co., Rutherford, N. J., design, drafting and estimating. TT 1.8: P 1.8: RC 1.2: D 1.1. July to Aug. 1924 Draftsman with A. G. Hayden, New York City, bridge drafting, reinforced concrete, design of retaining walls. Aug. to Sept. 1924 Designer, Bronx River Parkway Comm., retaining walls and reinforced concrete bridges. Sept. to Oct. 1924 Draftsman with L. Davidson, Engr., New York City, checked and traced design of steel and reinforced concrete. Oct. to Nov. 1924 Steel Designer with A. J. Thomas, New York City, 9-story apartment house and estimated 5-story house. Nov. 1924 to Feb. 1925 Draftsman, Lockwood, Green & Co., reinforced concrete, steel and timber, designed plant for W. & J. Sloane, Trenton, N. J. Feb. to April 1925 Asst. Supt., Saul Constr. Co., New York City, in charge of field work on foundations. TT 0.8: P 0.8: RC 0.7: D 0.6. April to May 1925 Cons. Engr. with Stoughton & Stoughton, New York City, checking design of Costello Memorial Hall, Porto Rico (1 week), and Draftsman with Parker & Shaffer, New York City, reinforced concrete detailing and structural steel design. June to Dec. 1925 Draftsman, Knickerbocker Ice Co., New York City, in charge of drafting

room. March to April 1926 Constr. Engr., J. W. Ferguson Co., Paterson, N. J., design of 10-story reinforced concrete factory, detailing and listing materials. *TT 0.7: P 0.7: RC 0.5: D 0.5.* Dec. 1925 to March 1926 Designing Engr. and April 1926 to date Office Mgr. with Henry Manley, New York City, on design of factories for Proctor & Gamble and of additions and changes to factories. *TT 0.5: P 0.5: RC 0.5: D 0.5.* *TT 12.8: SP 4.8: P 8: RC 5: D 4.2.* Refers to C. L. Bogert, P. Clow, C. R. Goodrich, E. G. Haines, A. G. Hayden, H. Manley, Jr., F. Peiser, T. Pettigrew, J. F. Sanborn, C. L. Weir.

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(11) **FRINCKE, MILTON HOTOPP**, Jun., 2638 Buckingham Rd., Los Angeles, Cal. (Elected Nov. 26, 1923.) Age 27. Born Baltimore, Md.) 1922 B. S. in C. E., Univ. of Cal. *TT 2: SP 2.* Jan. 1916 to Jan. 1919 with U. S. Army, 2 years as Private and Corporal in reconnaissance detail of Battery A, 143d U. S. F. A.; remainder of time in charge of same detail on responsible work in United States and France. *TT 3: SP 3.* Jan. to Aug. 1919 Asst. Engr. with Gutleben Bros., Engrs. and Contra., on construction of cableway up Half Dome, Yosemite Valley, Cal. *TT 0.2: SP 0.2.* June to Aug. 1921 Carpenter's Helper on construction, with F. E. Mattoon, Los Angeles, Cal. June to Aug. 1922 Gen. Warehouseman in charge of operation in Yosemite Valley, and May 1923 to Oct. 1924 Civ. Engr., on design of reinforced concrete structures and subaqueous foundation; Instrumentman and Asst. Supt. of construction of buildings and roads and culverts, all for Gutleben Bros. *TT 1.7: SP 0.5: P 1.2: RC 1.2.* Nov 1924 to date with McClintic-Marshall Co. as Engr. in charge of construction and Supt. of Constr. of structural steel fabricating plant, in charge of purchase, machine equipment and tools. *TT 1.6: P 1.6: RC 1.6.* *TT 8.6: SP 5.8: P 2.8: RC 2.8.* Refers to M. C. Burr, C. Derleth, Jr., B. A. Etcheverry, W. E. Jessup, R. R. Martel, F. Thomas, W. W. Weir.

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(9) **JARVIS, WALTER MONROE**, Jun., Bowling Green, Ky. (Elected Aug. 31, 1925.) (Age 30. Born Barbourville, Ky.) 1913 to 1916 (2½ years) student, Univ. of Kentucky. *TT 0.7: SP 0.7.* June to Sept. 1914 and June to Sept. 1915 Rodman with County Engr., Barbourville, Ky. *TT 0.5: SP 0.5.* May 1916 to April 1917 Rodman, Cumberland & Manchester R. R., Pathfork, Ky. *TT 1: SP 1.* May 1917 to Jan. 1919 with U. S. Army, finally as 1st Lieut., 42d Inf. *TT 1.7: SP 1.7.* Jan. to Aug. 1919 Instrumentman, Black Mountain R. R. Co., Harlan Co., Ky. *TT 0.6: P 0.6.* Aug. to Dec. 1919 Res. Engr. on county road construction, Pineville, Ky. *TT 0.4: P 0.4.* April 1920 to date with Kentucky State Highway Dept., as follows: April to June 1920 Chf. Draftsman, Chf. Locating Engr.'s Office, in charge of plans and estimates; June 1920 to June 1921 Draftsman, Central Office, on plans and estimates; June 1921 to Jan. 1922 Res. Engr., in charge of paving contract (over 9 miles); Jan. 1922 to Feb. 1923 Asst. Dist. Engr., Dist No. 5, second in charge of all activities in 19 counties; Feb. 1923 to date Dist. Engr., in charge of all activities in 18 counties. *TT 6.5: P 6.5: RC 6.5: D 1.* *TT 11.4: SP 3.9: P 7.5: RC 6.5: D 1.* Refers to C. R. Bloxton, J. F. Grimes, C. W. Lovell, T. A. Polanski, D. V. Terrell, E. N. Todd.

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(4) **KERR, SAMUEL LOGAN**, Jun., Richmond and Norris Sts., Philadelphia, Pa. (Elected Jan. 19, 1925.) (Age 27. Born Philadelphia, Pa.) 1921 B. S. in Mech. Eng., and 1924 M. E., Univ. of Pa. *TT 2: SP 2.* June to Sept. 1917 Draftsman, I. P. Morris Co. March 1918 to July 1919 with U. S. Army, A. E. F. in France. June to Sept. 1920 and July 1921 to date with I. P. Morris Co., Wm. Cramp & Sons Ship & Engine Bldg. Co., Philadelphia, Pa., as follows: June to Sept. 1920 Asst. in Chg., Hydraulic Testing Laboratory; July 1921 to July 1922 Research Asst. on special investigations and laboratory testing for hydraulic turbine manufacture, etc.; July 1921 to March 1924 engineering investigations, proposals and estimating on hydraulic turbines, field tests, investigations; tests on turbines, Utica Gas & Elec. Co., Trenton Falls Plant; Queenston Station, Hydro-Electric Power Commission, Ontario, Great Falls Station, Manitoba Power Co., Great Northern Paper Co., Millinocket, Me.; since March 1924 Asst. Hydr. Engr. in responsible charge of field testing and hydraulic turbine design; in charge (for Cramp Co.) of guarantee and acceptance tests on turbines (70 000 h. p.), Niagara Falls Power Co.; turbines (58 000 h. p.), Hydro-Elec. Commission, Ontario, Queenston Station turbine (2 500 h. p.), Spruce Falls Co.; turbine (4 550 h. p.), St. Croix Paper Co. *TT 5: SP 1: P 4: RC 2.8: D 1.2.* *TT 7: SP 3: P 4: RC 2.8: D 1.2.* Refers to H. G. Acres, C. M. Allen, O. D. Dales, N. R. Gibson, R. L. Hearn, T. H. Hogg, E. C. Hutchinson, O. V. Kruse, H. P. Rust, E. A. Taylor, B. E. White.

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(14) **SCHMIDT, RICHARD WAGNER**, Jun., 4001 Washington Blvd., St. Louis, Mo. (Elected Jan. 15, 1923.) (Age 31. Born Chicago, Ill.) 1922 B. S. in C. E., Univ. of Ill. *TT 2: SP 2.* Summer 1914 Field Engr., Webber Chimney Co., Chicago, Ill. Sept. 1915 to June 1916 Instructor in mathematics and mechanical studies under U. S. Govt. in Porto Rico.

June 1918 to July 1919 overseas with Intelligence Service, 12th Inf. Brigade, A. E. F., in charge of design of maps. *TT 1.1: SP 1.1.* Aug. 1919 to Jan. 1920 Asst. to City Engr., Urbana, Ill., on surveys, design and inspection of street and sewer improvements. *TT 0.4: SP 0.4.* Jan. to Sept. 1920 with City Planning Div., Chicago, investigating and designing proposed street widenings and diagonal street openings. *TT 0.7: SP 0.7.* June to Dec. 1922 Res. Engr. for County Engr., Sangamon County, Springfield, Ill., on concrete road construction. *TT 0.5: P 0.5: RC 0.5.* Dec. 1922 to May 1923 Field Engr. in charge of surveys for plant construction, Roxana Petroleum Corporation, Wood River, Ill. *TT 0.5: P 0.5: RC 0.5.* May 1923 to date Civ. Engr., St. Louis, Mo., sewer design, investigating and designing storm water relief; has designed outfalls to Mississippi, tunnels for Camp Springs and Western Mill Creek Dists., with shafts, etc. *TT 3.2: SP 2.3: P 0.9: D 0.9. TT 8.4: SP 6.5: P 1.9: RC 1: D 0.9.* Refers to H. E. Babbitt, C. D. Hill, W. W. Horner, E. R. Kinsey, J. E. Smith, A. N. Talbot.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.